Proposal for
Planning, Landscape Architecture, and Environmental Consulting Services
Big Sur Coastal Trail Master Plan

Submitted to:
State Coastal Conservancy

By:
Questa

In Association with:

GreenInfo Network
Bicycle Solutions
Steven C. Christiano
Garcia & Associates (DBE)

June 1, 2007

QUESTA
ENGINEERING CORP.

Civil, Environmental & Water Resources

May 31, 2007

State Coastal Conservancy
1330 Broadway, Suite 1300
Oakland, California 94612
Attn: Trish Chapman

Subject: **Proposal for Big Sur Coastal Trail Master Plan**

Dear Ms. Chapman

Questa Engineering Corporation, in association with GreenInfo Network, Bicycle Solutions, and Steven C. Christiano, is pleased to submit this proposal for the Big Sur Trail planning study. To supplement our study team in completing the existing conditions inventory and constraints analysis, we have also included Garcia and Associates (biological and cultural resources specialists), a Caltrans-certified Disadvantaged Business Enterprise (DBE).

The Big Sur Coastal Trail would provide a unique route for trail users and visitors along a very special area of California's central coast, and when constructed will surely constitute one of the finest trail experiences in California, if not the entire United States. The enclosed information outlines our study team's proposed work on the project, including a project task/personnel budget that demonstrates our understanding of the project through allocation of available funding.

Questa Engineering Corporation, a small business located in Pt. Richmond, CA, is recognized as one of the leading engineering and environmental design firms for trails planning in environmentally sensitive areas. We are not a traditional civil engineering firm; our work primarily consists of public interest and natural resources oriented projects, including stream restoration, fish passage barrier removal engineering, and trail planning and design. Questa has completed numerous trail feasibility studies located within environmentally sensitive areas. For instance, we are currently working on the planning of the Bob Jones City to Sea Trail, which would follow San Luis Obispo Creek in the unincorporated area of San Luis Obispo County from the city of San Luis Obispo to Avila Beach. We are also currently working on the Napa River Bay Trail, which will pass through several existing and restored tidal marshes in Napa County. In addition, we have designed and constructed trails in a number of sensitive areas, including the Shollenberger Marsh Trail near Petaluma and the Laguna de Santa Rosa trail near Sebastopol.

GreenInfo Network is a public interest non-profit firm located in San Francisco. The firm specializes in providing map-based (GIS) information to a variety of governmental and non-governmental organizations and non-profits to assist them in planning and decision making. GreenInfo Network has state-of-the-art capabilities and a very experienced staff, capable of meeting all foreseeable project graphics and GIS needs. GreenInfo Network would complete the majority of the project GIS work.

John Ciccarelli, of **Bicycle Solutions**, is a nationally recognized expert in bicycle planning, including pedestrian and bicycle safety issues and safety management strategies. Mr. Ciccarelli will conduct the feasibility/safety analysis of the trail section along Coast Highway 1.

Steven C. Christiano is an experienced planning process and meeting facilitator consultant who will facilitate Steering Committee and public involvement.

We have structured the scope of work and proposed budget to reflect the needs of the Coastal Conservancy and the local community, and have identified strategies and tasks to ensure the highest

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possible chances for a successful project outcome. Our strategy reflects our careful consideration of the potential environmental impacts of trail construction, as well as the potential impacts of increased public usage in sensitive habitats and in neighborhood areas. We also know the importance of carefully listening to and incorporating community knowledge and concerns, and bring expertise in creative design to minimize potential impacts, both of which will be key components of the project.

We look forward to the opportunity of working with you on this important project. Please do not hesitate to call me at (510) 236-6114 x 206 should you have questions or comments regarding this proposal and our fee estimate.

Sincerely,

Jeff Peters, Principal
Questa Engineering Corporation

JP/th

ref: 260175L1

Proposal

for

Big Sur Coastal Trail Master Plan
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Submitted to

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1330 Broadway, Suite 1300
Oakland, California 94612
Attn: Trish Chapman

Prepared by

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In Association with:

GreenInfo Network
Bicycle Solutions
Steven C. Christiano
Garcia and Associates (DBE)

Questa Project #260175

June 1, 2007

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1. Point of Contact

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2. Project Approach

Background. The Big Sur Coastal Trail Master Plan is envisioned to provide a precise plan for implementing a portion of the California Coastal Trail along the 75-mile Big Sur coast. The Master Plan will inventory existing conditions, analyze site opportunities and constraints, provide design criteria and a draft alignment, and chart a course for phasing, funding, and implementation of the approved Trail Master Plan. The Trail was identified in previous planning efforts as needing substantial improvement, since much of the route is currently along Highway 1. The Master Plan is needed as a next step to define feasible alignments, achieve consensus on planning objectives, and to identify specific projects and improvements that can be funded for implementation by partner agencies and stakeholders as part of a continuous trail system, also recognizing the importance of trail loops.

Project Issues. The placement of trails within natural resource areas is a widely debated issue. Local, state and federal planning agencies have adopted plans that call for multi-use public access within natural areas that will increase the public's awareness of our rich natural environment. However, many community members and regulatory agencies are concerned about trail impacts to wildlife, private property disruption, safety and accessibility of existing trails, and design of trails along roads. In addition to partner agencies and community members, developing workable solutions involves close collaboration between scientists, planners, and engineers from many disciplines. Our team values the importance of efficiently combining technical information, planning expertise, and facilitation skills to achieve consensus regarding public access. We believe our approach works well to synthesize complex issues into successful project solutions. We are experienced in low-impact trail design, road safety feasibility analysis, trail alignment, and components of trail design to minimize potential impacts. Our philosophy is to design projects that will minimize conflicts with adjacent uses; in our experience:

- Innovative design and technology can be utilized to minimize potential impacts.
- Designs should minimize implementation and maintenance costs, consistent with project goals.
- Input from the people who will manage the trail is an essential part of plan development.
- Close communication throughout the design process results in a better project.
- Siting facilities on existing roads and disturbed areas, where appropriate, may minimize intrusion.
- Setbacks should be incorporated to separate uses.
- Boardwalks and clear-span bridges should be used for non-motorized travel where possible.
- Utilizing permeable paving and alternative trail surfaces minimizes hardscape yet provides universal access.
- Habitat restoration, education, and enhancement opportunities should be provided along the trail, where appropriate.
- Use and management guidelines should be incorporated into the project.
- Utilizing screening, vegetated buffers and created swales to preclude access to sensitive areas.
- A balanced approach is essential to achieve consensus.

Community Involvement. One of the most important components of the Master Plan will be working with project stakeholders, including agencies, property owners and members of the public, to develop a Plan that reflects community concerns yet provides opportunities for a continuous trail, with safe and enjoyable public access in a treasured environment. For the Big Sur Coastal Trail (BSCT), members of the community and individual stakeholders are resources with a vast amount of knowledge regarding trail features, locations, problem areas, points of interest, sensitive areas, etc. Through the outreach process, we hope to gather this information and incorporate it into project decision-making. This can include Internet surveys as well as new technologies, such as providing community opportunities for georeferenced mapping, GPS mapping, Google Earth KML file compilation, and/or GEOPDF'S that can be marked up and input into a project geodatabase. The geodatabase should include open access to the public for review and submittal of information, as well as secured access for use by the planning team. Our goal is to provide many different ways for interested parties to provide input regarding the Trail, to acknowledge the concerns and ideas of the community, potential trail users, agency managers, regulatory authorities, and

others. These ideas and concerns form the vision for defining and implementing the Plan, and each person's contribution can be acknowledged. To ensure that this outreach is meaningful, we have included facilitator Steven Christiano, who has guided decision-making for other significant resource areas, including Lake Tahoe and Point Reyes. **Table 1** outlines our Work Plan to efficiently accomplish each project task.

Mapping and GIS. The work products, including draft trail alignment maps, and the final report will be map- and graphics-oriented. We will primarily utilize existing databases for development of the existing conditions information and the constraints analysis. We will request help from the Coastal Conservancy and other key interested parties in contacting agencies with map and GIS data, including information on existing trails and parcel and ROW/easement information. The compiled information will largely be summarized in tables, with sketches, notes, and ground photos illustrative of concepts linked to the map products. We will emphasize the development of clear, concise, and easily understood maps and supporting photographs, tables, and line drawing sketches. The metadata will clearly show the origin of all of the compiled data used to support decision-making and recommendations on alternatives and route selection.

Engineering Analysis. An engineering feasibility analysis will be completed by one of Questa's experienced trails engineers, in conjunction with a bicycle and pedestrian safety expert, and the project landscape architect. This will most efficiently be accomplished by using a pre-assembled trail log recording form that will be filled out in the field and that will note opportunities, hazards, constraints, and possible solutions. A field will also be provided for comments. The trail log will be prepared using a GPS and laptop or PDA, with data recorded on the fly. Conceptual sketches of the existing conditions and proposed design solution will be prepared, not to-scale engineered drawings.

Master Plan. In the interests of staying within the overall budget, we will de-emphasize text descriptions of existing conditions, constraints, engineering feasibility review, etc. For instance, the requested section on conformance with LCPs will be brief. We will coordinate with study team partners, such as county planning staff, Coastal Commission, and SCC staff, to identify issues for the report. In addition, the engineering analysis will not emphasize the preparation of detailed, to-scale cross sections in an AutoCAD format. We will develop protocols for timely submittal of comments and revisions for incorporation into the final draft Plan.

Action Plan. As with the Master Plan, the Action Plan will emphasize use of summary tables, charts, diagrams, and map graphics to identify recommended project priorities and implementation scheduling, lead or implementing agencies for trail design and construction, trail management entities, design standards, and planning level construction design, environmental review and permitting, mitigation, and construction costs.

Project Management and Progress Reporting. While it is recognized that Project Management is a key element of the project, it can also be time consuming and expensive. We will develop a summary progress report format that will be used to quickly convey to the study team management project status with respect to budget, schedule, deliverables, and key technical, policy and public process issues.

Cost Option. Detailed engineering cross sections prepared to scale in an AutoCAD format are proposed as a cost option. We anticipate that there may be as many as 50 to 60 cross sections needed (one for every 1.5 to 2 miles of trail). Costs for preparation of the cross sections are anticipated to be on the order of $15,000.

Table 1. Work Plan

Task	Approach	Key Team Members *Desired Outcomes*
Task 1. Establish Goals and Objectives for Master Plan Facilitated meetings to review draft goals and objectives for the trail, and to receive input on project issues and outcomes. These goals and objectives will provide guidance for BSCT implementation.	We will facilitate the discussion of issues and outline the process for decision-making. This discussion should also outline desired methodologies for information gathering for project efficiency. We will ntroduce key staff, review study objectives, collect available data; develop meeting schedule .	J. Peters, S. Christiano M. Henderson, L. Orman *Input and recommendations on Trail goals and objectives. Meeting agenda/ presentation, handouts. Establish communication protocols.*
Task 2. Prepare Existing Conditions Report The Report will rely on available data, supplemented with information obtained in the field, already in hand (GIN field data), and input from the community and project stakeholders. Features identified in the RFS will be included in the report, such as existing trails, parking, access points, easements, habitat areas, etc. Information gathered in the field includes: ▪ Structures, fences, gates, parking ▪ Views/vista points ▪ Existing vegetation and unique areas to be avoided ▪ Utilities; vaults, boxes, wires, etc. ▪ Drainage patterns. ▪ Sensitive habitat areas, including wetlands, geologic features, nesting sites, and other resources.	We will compile the baseline data into a geodatabase, maps and report. We will utilize GIS data from the Caltrans study, SCC deed information, background information from project stakeholders and previous studies, and community input. We will meet with agency partners and interested parties as part of the data collection, and input this information into the report and geodatabase where appropriate.	Questa, GIN, J. Ciccarelli, GANDA (as needed) *Existing Conditions Report, including maps and geodatabase.*
Task 3. Develop Design Criteria This task entails analysis of existing goals, policies and standards from the myriad of project stakeholders, and identification of workable design criteria for the BSCT. The design criteria should reflect the management needs, operational responsibilities and regulatory authority of project stakeholders, as well as community concerns regarding the Trail. The Design Criteria will form the basis for decision-making regarding trail alignment, type, amenities and other key outcomes.	We will draft design criteria for the trail for circulation by SCC. The design criteria will be a synthesis of existing goals, objectives, policies, and standards from overlapping jurisdictions, as well as recommendations from community input. This will be compiled into a recommended program for the BCST, to be circulated for stakeholder approval.	Questa, J. Ciccarelli *Draft Design Criteria, based upon existing adopted goals, objectives and standards, and tailored for the needs of the BSCT.*

Task	Approach	Key Team Members *Desired Outcomes*
Task 4. Prepare Opportunities and Constraints Analysis This task includes identification of opportunities and constraints for development of a continuous trail, including separation from Highway 1, areas where Class II/III trails are feasible, spur trails, access points, parking needs, bridge and wetland crossings, habitat features, etc. Where needed, protocols for wildlife protection will be identified (GANDA), as well as landslides, geotechnical constraints, wetlands, and roadbed suitability analysis (AGS)	We propose to use an efficient and integrated approach to gather data for database input for the bicycle improvement opportunity analysis. Information will be input at key points (bridges, parking areas, habitat features, driveways, etc.) at maximum one-mile intervals, to provide a matrix of site opportunities and constraints associated with provision of Class II bike lanes. We will identify safety issues, crossing options, parking needs & other trail needs.	Questa , GIN, John Ciccarelli, GANDA, *Opportunities and Constraints Analysis Key point mapping of constraints and opportunities, trail matrix of issues by trail reach.*
Task 5. Define the Proposed Trail Alignment(s) This task includes identification of potential trail alignments, including a continuous pedestrian path (Class I wherever feasible),a continuous bicycle alignment (Class II where feasible, potentially Class III in places), and trail spurs and loops where possible for coastal access, links to park areas, vista points, etc.	Utilizing input from the Opportunities and Constraints Analysis will be a key to identifying feasible alignments and locations for trail improvements. We will use trail reaches that have common design challenges, and will define appropriate trail elements that serve different types of trail users. Mapping and reports will indicate needed infrastructure improvements, such as sliver widening, underpasses, ramps, boardwalks, bridges, parking improvements, etc.	Questa, GIN, John Ciccarelli *Map and trail matrix identifying trail options, alternative alignments, needed improvements, infrastructure, etc. This analysis will include a brief description of consistency with applicable LCP/Coastal Act policies.*
Task 6. Prepare Preliminary BSCT Plan Preliminary Plan will be prepared for electronic review and submission, summarizing all work to date.	All working information will be compiled into a Preliminary Plan for review.	Questa, GIN *Preliminary BSCT Plan, maps and report*
Task 7. Prepare Action Plan The Action Plan will include: ▪ Individual implementation projects to complete Trail sections ▪ Recommended priorities and phasing for project continuity ▪ Next steps for project implementation ▪ Priority project list, including details and cost ▪ Management needs, lead agency and financing options ▪ Funding and grant opportunities, as well as legislative needs	This Task includes a phasing and funding component to allow informed decision making regarding trail implementation. Recognizing that segments of the trail will be implemented as separate projects by different entities, the Plan must identify overall project cost, phasing and funding priorities, management entities and options for long-term implementation of project elements. This Plan will be reviewed and revised based on stakeholder input.	Questa *Action Plan, including Priority Projects, Next Steps, Management Options, and Funding Mechanisms.*

Task	Approach	Key Team Members *Desired Outcomes*
Task 8. Prepare Master Plan The Master Plan will include all work to date, including revisions to the Preliminary Plan. The Plan will include descriptive features including: ▪ Typical design character. ▪ Typical design elements, including hardscape, benches, bicycle racks, interpretive displays. ▪ Trail surfacing and width. ▪ Bridges and boardwalks. ▪ Preliminary cost estimates, prioritization and phasing ▪ Trail surface, width and clearance ▪ Access improvements along trail, ▪ Spur trail alignments, including loop access, ▪ Pavement repairs, infrastructure, retaining walls, etc. ▪ Recommended striping, fencing, gates, signage, etc. ▪ Bridge retrofit/replacement recommendations. ▪ Accessible trail and ADA infrastructure components. ▪ Provisions for multiple use. ▪ Emergency vehicle considerations ▪ Interpretive signage and educational components. ▪ Wildlife and habitat restoration elements, if applicable.	This report will include a comprehensive project description for inclusion in subsequent environmental review, cost estimates for project elements, phasing recommendations, etc., as well as identification of necessary permit requirements and potential project partners. The Master Plan is intended to provide a long-term guide for the logical implementation of a continuous trail. As a multi-function document, it can be used as a master document for tiering into implementation projects for individual segments, used to apply for grant funding or legislative action, and for discussion regarding trail management, responsible lead entities, trail users, safety issues, etc. It is hoped that partnering agencies will utilize the document to guide planning efforts and implementation projects (such as Caltrans road projects) to incorporate trail elements where appropriate. Community support of the Plan elements will also be important to guiding implementation efforts.	Questa, GIN *Final Draft BSCT Master Plan*
Task 9. Attend/Facilitate Meetings We will utilize a combined approach, with professional facilitation of most of the project meetings, as well as focused meetings for specific project issues.	In our experience, a combination of field and formal meetings is useful to provide a guided setting for discussing project issues in a neutral environment. In addition to desired outcome (e.g. finalized goals and objectives), meetings can be tailored for individual trail reaches, use issues, agency/stakeholder need, etc.	Steve Christiano, Questa GIN, J. Ciccarelli (as needed)
Task 10. Project Management (15 progress reports) Efficient project management is essential to timely completion of project tasks within budget. In addition to coordination of stakeholder and community input, coordination with SCC staff to identify issues that may affect budget and schedule will be identified as part of project management. It is likely that informational needs and project outcomes may shift as a result of stakeholder input, community needs and definition and refinement of trail alternatives. We are confident that these issues can be resolved efficiently through effective project management.	Questa utilizes a project management system along hierarchical lines with an independent quality control check. Mr. Peters will provide senior quality control review of all deliverables. Project scheduling and time management employ critical flow path methodology. Project milestones and key deliverables are identified at the outset of the project and a schedule developed and agreed upon. This will be entered into a PC-based management software system, which gives bi-weekly reports of labor use by work task and compares work completion (%) with project estimates.	Questa - Jeff Peters

3. Project Staffing

Questa is a small civil and environmental engineering, planning, and design firm. Questa offers services to clients throughout coastal northern and central California for planning, public works, environmental restoration, resource conservation and water resource management projects. The firm strongly subscribes to an interdisciplinary approach in planning solutions to complex environmental and engineering problems. As a small company, our senior staff necessarily maintains a high degree of involvement and management control over individual projects, and a close client-consultant relationship. We are experienced in involving the public in the design process, overall project organization, budgeting and scheduling, preparation of design plans and specifications, and contract administration. We have expertise in the development of Master Plans, as well as concept plans and improvement plans for parks and open-space areas, and creek and riparian habitat areas. Our plans for these areas often incorporate environmental education and interpretive facilities, trails, parking and visitor service facilities.

Our recent experience includes projects throughout northern and central California, including natural area park design and trails planning. In most projects, we use a community-based approach to solicit ideas, identify conflicts, and achieve consensus among participants and stakeholders on project issues. It is important to involve all project stakeholders early on, so that concerns can be addressed and goals and expectations can be identified. When each stakeholder is acknowledged, a successful plan can be developed that balances community priorities with an agency's management needs and budget. What sets Questa apart from our competitors is that we develop real design solutions to real problems, based on our capabilities and experience in translating conceptual designs into working construction drawings. We focus on project-specific issues and develop reasonable, cost-effective alternatives that are thoroughly vetted through engineering and environmental feasibility analysis, as well as public and local community input.

We have assembled a project team that is uniquely qualified to efficiently complete project tasks. Team members include: **GreenInfo Network** (mapping and database management), **Bicycle Solutions** (Bicycle/pedestrian traffic safety constraints), and **Steven Christiano** (facilitator), in addition to **Garcia & Associates** for as-needed consultation (biological resource analysis, archaeology constraints). Our team is flexible, with multiple capabilities adaptable to revisions in scope and information needs. **Figure 1** shows our Team Organizational Chart. Below are summaries of the study team's project roles and key team members' individual experience. Resumes are included in **Section 6a**.

Questa (Point Richmond)

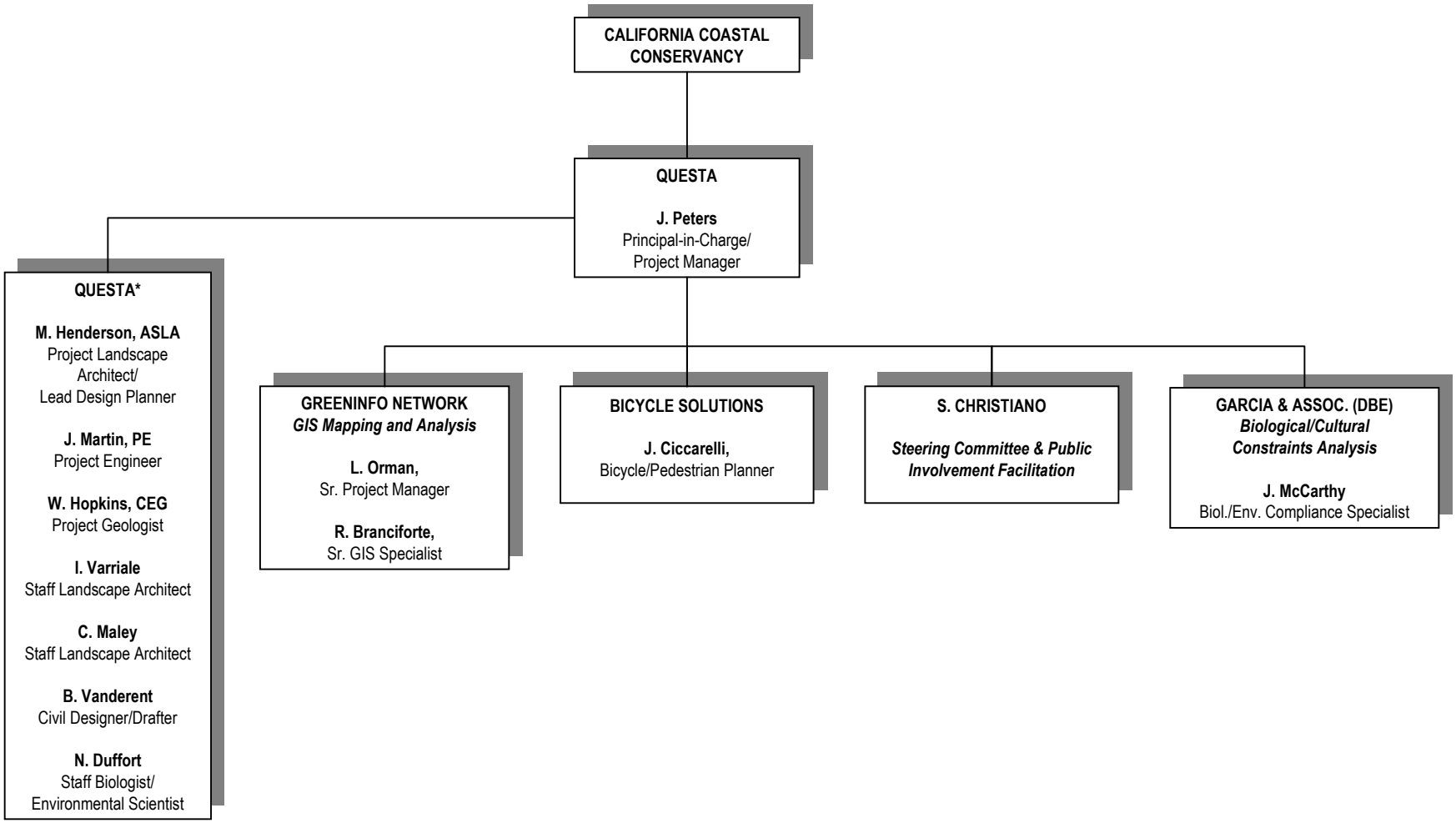
Mr. Jeffrey Peters, Principal, will be the **Principal-In-Charge and Project Manager** responsible for guiding development of the study and the main point of contact with the Conservancy. As a working principal, Mr. Peters will also be a key investigator and oversee the planning process. Mr. Peters has over 30 years of experience in environmental design, natural resource planning and project management. He has managed and implemented numerous resource management and public access projects, including planning for the Bob Jones Trail in San Luis Obispo County, the Petaluma River Access and Enhancement Plan, the Napa River Bay Trail Plan, as well as implementation plans for Shollenberger Wetlands Park and Trail in Petaluma, and the Laguna de Santa Rosa Wetlands Preserve Park Trail in Sebastopol.

Ms. Margaret Henderson, ASLA, will be the **Project Landscape Architect** and **Lead Design Planner**. Ms. Henderson has over thirty years of professional experience as a landscape architect, and environmental planner. She specializes in trail planning for natural areas, planning and policy formulation and resource-based environmental design. Her work ranges from site-specific planning to large-scale master plans, such as the Novato Trails Master Plan, a community-based plan that will provide a network of 100 miles of trails and paths in Marin County. Ms. Henderson worked closely with Mr. Peters on all of the above referenced trail planning and engineering design studies.

Mr. Jeffrey Martin, PE, will be the **Project Engineer** responsible for evaluation of engineering design constraints and design alignment options. Mr. Martin has over 15 years of experience in infrastructure improvement and project management. He has designed and managed the construction of several public access projects, including Marin County's Top Flite Trail, Morgan Hill's West Little Llagas Creek Trail, the City of Fremont's Union Pacific Rails to Trails Project, the Sears Point and Sonoma Baylands Trails in Sonoma County, and other SF Bay Trail projects in Sonoma and Napa Counties. His specialty services include feasibility analysis of overpasses and underpass opportunities for pedestrian crossings, bridges, boardwalks

FIGURE 1. QUESTA TEAM ORGANIZATION CHART

BIG SUR COASTAL TRAIL MASTER PLAN



***Other Questa staff available for in-house consultation include civil and structural engineers, hydrologists, and geomorphologists**

and other trail elements, cost estimation, design and implementation assistance. Mr. Martin is a highly experienced trail engineer, owing a large part of his trail expertise to his off-work activities as an active hiker, bicyclist, and kayaker.

Will Hopkins, CEG, Senior Engineering Geologist, will complete the landslides and geologic constraints analysis. Mr. Hopkins has over 20 years of experience in geological/geotechnical and environmental services for planning and engineering design. His work has included geologic, landslides, and fault investigations. Mr. Hopkins is adept in coordinating geotechnical projects with multiple agencies and firms, and in completing projects on time and within budget. For the past 20 years he has been employed by private consulting firms in the San Francisco Bay Region (almost 15 years at Questa) and has performed various geologic, engineering, and analytical duties. Mr. Hopkins currently is in charge of the Geological and Geotechnical Services Group of Questa, managing and completing projects that include open space, park and trail planning geotechnical investigation and design. As such, he has worked on over a dozen trail feasibility studies.

Additional Questa staff may include **Carl Nelson, PE, Civil Engineer**, **Ian Varriale** and **Corrine Maley, Staff Landscape Architects, Barry Vanderent, Designer/Drafter,** and **Nick Duffort, Staff Biologist/Environmental Scientist.** Resumes are included in **Section 6a.**

GreenInfo Network (San Francisco)

GreenInfo Network will be responsible for all project-related GIS work. GreenInfo Network is a non-profit organization that has provided map-based information to over 100 public interest groups and agencies, most of which are conservation or environmental organizations. They are known for the visual quality of their display and web mapping, as well as for the competence and efficiency of their client relationships and for their extensive GIS technical skill base.

Mr. Larry Orman will be GreenInfo Network's **Senior Project Manager**. Mr. Orman is Executive Director of GreenInfo Network, overseeing all areas of operation and leading strategic communication projects for the organization. He has ten years experience with GIS projects and was previously the executive director of Greenbelt Alliance, the Bay Area's conservation and regional planning non-profit.

Mr. Ryan Branciforte will be GreenInfo Network's **Senior GIS Specialist**. Mr. Branciforte is the lead staffer for their protected lands data development, as well as for the Bay Area Ridge Trail Council, the Bay Area Open Space Council and related organizations and projects in the central California region.

Other members of GreenInfo Network's nine person GIS staff will provide specialized support to the project as needed (examples include use of web-based technologies for supporting group processes and public education, specialized graphic design, etc.).

Bicycle Solutions, Inc. (San Francisco)

Mr. John Ciccarelli, Bicycle/Pedestrian Planner will complete the bicycle improvement opportunity analysis and assist with development of design alignments. Mr. Ciccarelli is an experienced traffic planner and has developed city, county, regional, campus and airport bicycle plans, street corridor striping plans, trail improvement plans, and the Bicycle Accommodation Guidelines for Santa Clara County's expressway system. He is a nationally recognized expert in bicycle safety, pedestrian accommodations and safety crossings, which will be an essential part of the trail plan. In addition, Mr. Ciccarelli is a skilled facilitator and will participate in portions of the outreach effort. As an experienced seminar leader, he has created workshops for Caltrans and Los Angeles County MTA, and teaches classes on bicycle planning and safety through UC Berkeley's Tech Transfer catalog. Mr. Ciccarelli was the first Bicycle Program Manager of Stanford University, where he coordinated circulation and safety improvements throughout the campus. Mr. Ciccarelli worked closely with Questa on completing the Fremont UPRR Trail Feasibility Study and is currently working with Questa on the City of Livermore's Iron Horse Trail Feasibility Study.

Steven C. Christiano

Mr. Steven C Christiano, Consultant, will be the **Steering Committee & Public Involvement Facilitator**. Mr. Christiano has twenty years of experience as a Facilitator / Process Consultant to a wide variety of organizations in the public and private

sector, and a background in non-profit management in the environmental educaton field. Steve has broad experience in organizational development, planning, environmental education, facilitation and the design of complex collaborative group processes. His current clients include major environmental, conservation, educational research, health, and human service organizations. Mr. Christiano recently led a training workshop on conducting design charettes and group processes for trails planning on a statewide level.

Garcia and Associates (DBE) (San Anselmo, California)

Garcia and Associates (GANDA) is a DBE-certified firm specializing in biological and cultural resources. The firm is an on-call consultant to several Caltrans districts for environmental and permitting issues. **Mr. John McCarthy, Biologist/Environmental Compliance Specialist**, will provide as-needed sensitive habitat protocols and biological consultation, as well as review and compilation of archaeological and cultural resource information. Mr. McCarthy is GANDA's San Anselmo Office Regional Manager. He has more than 15 years of experience in completing environmental documents for public and private clients, effectively managing budgets and schedules for both large and small projects. He is experienced in National Environmental Policy Act (NEPA) and California Environmental Quality Act (CEQA) environmental compliance, including gathering baseline data, scoping, public participation, environmental impact analysis, and preparing and reviewing proponents' and regulatory agencies' documentation. He is knowledgeable in a multitude of permitting and formal consultation processes regulated by agencies that include water resource boards, Department of Fish and Game, Army Corps, U.S. Fish and Wildlife, NOAA Fisheries, Bureau of Land Management, and U.S. Forest Service. He has prepared EIR/EISs for transportation and water projects, Initial Studies/ Negative Declarations, Preliminary Environmental Assessment Reports (PEARs) and Natural Environment Studies (NES) for Caltrans, Environmental Assessments (EA) for the U.S. Forest Service, and California Timber Harvest Plans for many private and industrial timberland owners.

4. Relevant Experience

Our study team has worked on many public access and trail planning projects in recent years. We enjoy projects that offer increased opportunities to provide public access and recreational trails. Following are relevant project references for Questa and GreenInfo Network; please see **Sections 6b** and **6c**, respectively, for project portfolio sheets with detailed project descriptions and photos. Project experience for **Bicycle Solutions, Inc**., **Steven C. Christiano**, and **Garcia and Associates**, are integrated in individual staff resumes in **Section 6a**.

Questa

- **Green Valley Trail Design & Feasibility Study - CA Coastal Trail to South of Devil's Slide Tunnel -** Study for pedestrian trail linkage in northern San Mateo County. Planned facilities include parking areas and a 4-foot wide recreational trail. Included review and analysis of site biology, topography, and geotechnical issues and constraints. Trailhead design includes provisions for pedestrian and vehicular use. Final design coordinated with Coastal Conservancy and Caltrans.
  Contact: *Timothy Duff, Project Manager, California State Coastal Conservancy, (510) 286-3826*
- **Bob Jones Multi-Use Path, San Luis Obispo County -** Design feasibility study and preliminary engineering for part of planned City-to-Sea route to provide a continuous Class I recreational trail between the coast at Avila Beach and the City of San Luis Obispo along 6 miles of SLO Creek. Included coordination with Caltrans Local Assistance Program Engineer. Addressed alternative trail alignments, preliminary engineering, design cost estimate, and right-of-way acquisition needs.
  Contact: *Jan Di Leo, County of San Luis Obispo Parks, (805) 781-5900*
- **Napa River Bay Trail Engineering Feasibility Study -** Nearly completed study evaluates new Bay Trail route to connect western end of American Canyon to City of Napa, along Napa River, associated marshlands, and significant infrastructure. Evaluation includes preferred alignment, design, construction costs, and environmental issues.
  Contact: *John Woodbury, Napa County Dept. of Conservation, Development & Planning, (707) 253-4417*

- **Fremont Union Pacific Rail Trail Feasibility Study, Fremont, CA -** Conducted study to determine preferred alignment, project constraints, trail components, acquisition costs, project phasing, and funding options for proposed 9-mile trail corridor adjacent to proposed BART Warm Springs Extension and active rail corridor. Includes sensitivities/constraints analysis, evaluation of trail feasibility, right-of-way acquisition, cost estimation, separation and buffering needs, and extensive coordination and outreach with stakeholders, agencies, and neighborhood groups.
  Contact: *Rene Dalton, Transportation Engineer, City of Fremont, 510-494-4535*

- **San Francisco Bay Trail Project Gap Analysis –** (In association with Alta Planning+ Design), project included mapping existing Bay Trail segments (completed by GreenInfo Network), identifying specific characteristics of gaps in 500-mile Bay Trail system, determining appropriate trail components, and developing cost estimates for identified gaps. Included review of existing Bay Trail Feasibility analyses to determine projected project costs, estimate of construction timeframes, identification of potential funding sources, preparation of summary report, and developing strategy for stakeholder outreach. Questa developed cost methodologies, identified trails needs, types and typical trail sections, and assisted with project phasing and prioritization.
  Contact: *Laura Thompson, Bay Trail Project Manager, Assoc. of Bay Area Governments (ABAG), (510) 464-7935*

- **Marin County Nonmotorized Transportation Pilot Program (NTPP)** – Part of study team (with Alta Planning + Design) to implement a pilot federal $25 million funding program for non-motorized transportation improvements by the year 2010. The project includes extensive outreach and group coordination to develop a priority list for funding and implementation of projects throughout the County, in an equitable manner, and recognizing the need for all types of programs to serve transit needs, including educational programs, signage, street/curb improvements, and specific gap closure efforts. Questa's tasks included project identification, assessing project constraints, prioritization, and estimation of project costs, as well as input on short-listing "constructable" trail projects. Project includes Class I trails, bicycle lanes, pedestrian crosswalks, grade separation projects, and education and outreach programs. Phase I has been completed, and individual trail projects are in the design, permitting and planning phase.
  Contact: *Craig Tackabery, Asst. Dir. of Public Works, County of Marin, (415) 499-6528, or Dan Dawson, Principal Transportation Planner, County of Marin, (415) 499-6287*

GreenInfo Network

- **California Protected Lands Database** - Developing next-generation data set of all protected lands in California, eventually to be hosted by the State's CERES program. Dataset contains every single parcel of protected open space, from tot lots to national parks – wherever possible, based on official assessor parcels (including in Monterey County). This data development has taken many years and has been supported by a number of organizations, foundations and public agencies (including the Calif. Coastal Conservancy).
  Contact: *Bettina Ring, Coordinator, Bay Area Open Space Council, 415-460-1540*

- **ParkInfo.org** – As part of protected lands inventory work, created online, one-stop portal to all protected lands in California, www.parkinfo.org. User-friendly site allows anyone to find parks by address, city/town, or name, driving and transit directions, and printouts of maps and park selections.
  Contact: *Bettina Ring, Coordinator, Bay Area Open Space Council, 415-460-1540*

- **Bay Area Ridge Trail Council** –Lengthy GIS support for Council's efforts to complete major San Francisco Bay Area regional trail system. Developed extensive trail GIS connected to project management database, enabling Council to track trail system gaps and easily generate progress reports. Data system is coupled with a wide array of mapping products, including photo and topographic atlases of entire regional trail corridor.
  Contact: *Janet McBride, Exec. Director, Bay Area Ridge Trail Council, 415-561-2595*

- **Golden Gate National Parks Conservancy** – Core GIS support to multi-agency Coastal Trail project, supported by Moore Foundation. Involved developing data & display mapping for problem solving groups, for support of on-trail group surveys, including creating databases for Recreation Area sign management.
  Contact: *Sharon Farrell, Golden Gate National Parks Conservancy, 415-561-3065*

- **Big Sur Land Trust** –GIS support to Land Trust's planning efforts over many years, developing display maps enabling them to display detailed information about land conservation needs and opportunities. As a result, GreenInfo Network is very familiar with Big Sur Coastal region and related data sets.
  Contact: *Bill Leahy, President, Big Sur Land Trust, (831) 625-5523, x101*
- **ABAG Bay Trail** - GIS, database, mapping and survey support for development of comprehensive data set showing status of each Bay Trail gap. Involved creating database structure for gap information, automated atlas of each jurisdictions trail gaps, online survey for agencies to log in data, and final poster-scale display mapping showing updated trail status.

5. Detailed Budget

Table 2 provides a detailed not-to-exceed budget, broken down by task and key staff member. We understand that a maximum of $175,000.00 is available to complete the Big Sur Trail Plan. In our experience that as we get further into a project with a fixed budget, some issues may become more important than originally scoped and budgeted, and other issues may become relatively less important. Questa and its sub-consultants will be flexible and will work closely with the Conservancy and the project team to adapt to any changing issues requiring more or less attention, investigation, and planning/engineering. In that regard we will continuously monitor our budget and work progress, proposing changes in budget allocation between tasks and among the differing study team members, subject to the review and approval of the client, that in our judgment best utilize the available funds. Questa's Principal-in-Charge and Project Manager, Jeffrey Peters, has managed a number of similar projects, with similar work scopes and technical complexities, and is adept at making in-stream changes to work scope, deliverables, and budgets to get the most out of available funds, with the overall aim of delivering a high quality work product that meets and most often exceeds the client's expectations and needs. In-progress changes are made easier by Questa's accounting system, which is able to track charges by personnel, project, and task number and provides a weekly (daily on demand) progress report on budget utilized, budget available, comparison of percentage of work completed with budget, and other functions that greatly assist in timely project management.

Table 2
Not-to-Exceed Cost Estimate
Big Sur Coastal Trail Master Plan

	RATES AND HOURS											
	QUESTA						GreenInfo Network		Bicycle Solutions	S. Christiano	Totals	
	J. Peters Principal-in-Charge $150	**M. Henderson** Landscape Architect $130	**J. Martin** Project Engineer $130	**W. Hopkins** Project Geologist $135	Staff Planners/ Specialists* $75	Clerical $65	**L. Orman** Sr. Proj. Mgr. $100	**R. Branciforte,** Sr. GIS Specialist $80	**J. Ciccarelli** Bicycle Planner $110	Steering Comm./ Public Facilitator $125	**Total Hours by Task**	**Total Fees by Task**
Project Tasks												
Task 1. Establish Goals and Objectives for Master Plan (2 mtgs)	16	20								28	**64**	**$ 8,500**
Task 2. Prepare Existing Conditions Report	12	24	8	24	24	16	40	80	16		**244**	**$ 24,200**
Task 3. Develop Design Criteria	16	16	8		8	20	29	70	8		**175**	**$ 16,800**
Task 4. Prepare Opportunities and Constraints Analysis	16	32	16	13	28	24	20	80	24		**253**	**$ 25,095**
Task 5. Define the Proposed Trail Alignment(s)	16	36	16		20		20	20	16		**144**	**$ 16,020**
Task 6. Prepare Preliminary BSCT Plan	12	40	8		30	20	4	10	16		**140**	**$ 14,550**
Task 7. Prepare Action Plan	12	16	8		16				20		**72**	**$ 8,320**
Task 8. Prepare Master Plan	12	24	8		24	12	8	24	8		**120**	**$ 12,140**
Task 9. Attend/Facilitate Meetings (8 addl. Meetings)	80	40								98	**218**	**$ 29,450**
Task 10. Project Management (15 progress reports)	30										**30**	**$ 4,500**
Total Hours by Team Member	***222***	***248***	***72***	***37***	***150***	***92***	***121***	***284***	***108***	***126***	***1,460***	***$ 159,575***
Total Labor Cost by Team Member	***$ 33,300***	***$ 32,240***	***$ 9,360***	***$ 4,995***	***$ 11,250***	***$ 5,980***	***$ 12,100***	***$ 22,720***	***$ 11,880***	***$ 15,750***	***-***	***$ 159,575***

* Rate reflects average among multiple staff, including **C. Maley / I. Varriale**, Staff Landscape Architects, **B. Vanderent**, Designer/Drafter, and **N. Duffort**, Staff Biologist/Environmental Scientist

EXPENSES	
1. Travel @ $0.485/mile	$ 2,500
2. Lodging/meals (26 person-days @$150)	$ 4,000
3. Prints, copy, reproduction, misc.	$ 700
****Garcia & Assoc.** (DBE) - as-needed biological & cultural resource consult.	$ 8,200
Total Estimated Expenses	***$ 15,400***
TOTAL COST, EXPENSES & LABOR	***$ 174,975***

** J. McCarthy, Garcia & Assoc., @$115/hour - biological/cultural constraints

6. Resumes and Additional Qualifications

6a. Resumes for Key Personnel

JEFFREY H. PETERS
Principal Environmental Planner

- M.S., Soil Science, University of California, Davis, 1973
- B.S., Resource Management, University of California, Davis, 1971

Mr. Jeffrey Peters is a Principal with Questa Engineering Corporation and directs the firm's projects involving public access and trail planning, especially in natural areas. Mr. Peters has more than 30 years of experience in environmental planning and project management. He has managed and implemented numerous public access projects, many of which involved planning public access trails in conjunction with creek restoration or enhancement plans, provision of CEQA review and permitting, preparation of Construction Documents, and construction observation.

Representative Assignments

Bob Jones Multi-Use Path, San Luis Obispo County. Principal-in-Charge for a proposed major regional trail as part of a planned City-to-Sea route to provide a continuous Class I recreational trail between the coast and the City of San Luis Obispo along 6 miles of SLO Creek. This report examined the physical and environmental constraints to establishing bicycle and pedestrian trails along three potential routes. Alternative trail alignments, design considerations, a preliminary engineering and design cost estimate, and right-of-way acquisition needs were also addressed.

Grasslands Park Master Plan, Yolo County, California. Principal-in-Charge for the 320-acre park Master Plan, south of Davis, California. The site mixes naturalized grassland areas, leased active recreation facilities (model plane soaring, horseshoe pits, and an archery course), and natural/created habitat areas.

Green Valley Trail Design and Feasibility Study - California Coastal Trail to South of Devil's Slide Tunnel, Montara State Beach Park, San Mateo County. For State Coastal Conservancy. Principal-in-Charge for identification and design of preferred route for trailhead facilities, including parking areas and 4-foot wide recreational trail to be constructed by Caltrans. Work included review and analysis of site biology, topography, and geotechnical issues and constraints. Trailhead design included provisions for pedestrian and vehicular use.

Golden Gate Fields Interim Bay Trail Planning and Engineering Design, Albany and Berkeley, CA. For East Bay Regional Park District. Principal-in-Charge for planning and engineering design for 1-mile of proposed Bay Trail adjacent to Golden Gate Fields in Albany and Berkeley. Work included base map preparation, preliminary conceptual design to final design, and preparation of Plans, Specifications, and Cost Estimates.

Laguna de Santa Rosa Implementation Plan. City of Sebastopol. Principal-in-Charge for planning and preparation of Plans and Specifications for improvements to several hundred acres of freshwater marsh and riparian corridor. The public access element included design of a seasonally removed 90' floating bridge across the Laguna, a boardwalk across sensitive wetlands areas, and an extensive trail network. The project was implemented in four phases, 1998-2002.

San Francisco Bay Trail - Pt. Pinole Regional Park to Pt. Wilson and Richmond Parkway to Point Pinole Regional Shoreline Preliminary Feasibility, Engineering, and Biological Assessment Studies. For East Bay Regional Parks District (EBRPD) and Alta Planning + Design. Principal-in-Charge for evaluation of design, construction, and drainage to provide a paved 1.7-mile multi-use trail connection along Union Pacific Railroad (UPRR) right-of-way and connection from Pt. Pinole Regional Shoreline to the Richmond Parkway. Trail alternatives included wetland boardwalks, boardwalks cantilevered on the railroad levees, possible UPRR tunnel or under-crossing, and clear span bridge crossings of tidal sloughs. Work included reviewing/assessing current EBRPD/UPRR agreements, determining setback/safety criteria, fencing/barrier type, storm drainage, and tidal influence area requirements, identifying potential wetland, marsh, endangered species, or other environmental issues and mitigation measures, completion of CEQA Initial Study, and exploration of educational/interpretive opportunities. Projects also involved cost estimating for trail construction, pavement, fencing, bridges, or other structures, and coordination with UPRR and regulatory agencies.

Petaluma River- Denman Reach Floodplain Restoration, Stream Enhancement and Trailhead Access. East Bay Regional Parks District (EBRPD) and Alta Planning + Design. For City of Petaluma and California Dept. of Water Resources Urban Stream Restoration Program. Principal-in-Charge for design, permitting, and final Plans and Specifications for a 12-acre riverfront park and natural area along upper Petaluma River. The project involved creating a new restored floodplain terrace (30,000-cu yd floodplain excavation to connect river and floodplain to provide flood storage) to reduce local flooding and provide riparian restoration. Other elements included visitor orientation and natural interpretive panels, paths, trails, two underground storm drains day-lighted into treatment wetlands, a restored creek tributary for water quality improvement, and a trailhead parking lot using permeable paving and direct run-off to a treatment wetlands.

Hamilton Bay Trail, Novato. Principal-in-Charge for trail planning for Bay Trail Spur associated with 2,500-acre wetlands restoration project.

Richmond Bay Trail Investigation, Chevron Facility, Point Richmond. Principal-in-Charge for proposed link between residential Point Richmond and Point Molate undercrossing. Study explored alternatives to current route on Hwy. 580.

Petaluma River, Marin, Access and Enhancement Plan, completed with Sam McGinnis for Marin County Planning Dept. and State Coastal Conservancy. Principal-in-Charge for project located downstream of the Petaluma Marsh Plan, in Marin County. The project covered over 1,200 acres of tidal marsh, diked tidelands, and seasonal wetlands, along the River and surrounding Gnoss Airfield, owned by Marin County. Most of the Planning area is under the control of California Department of Fish and Game. The plan addressed a number of endangered species, including Salt Marsh Harvest Mouse and Clapper Rail, and the effect of wetlands restoration on airfield operations, the small commercial boatworks at the head of Black John Slough, and the Mira Monte Marina. The plan included biological restoration and public access components.

Project Manager for Enhancement and Access Plan for Buena Vista Creek for the City of Vista in San Diego County, and State Coastal Conservancy. Principal-in-Charge for detailed hydrologic and hydraulic modeling. Developed concept plan, and following acceptance by City and Coastal Conservancy, prepared Plans and Specifications for flood management, including channel enlargement, floodwalls, public access pathways, biotechnical bank stabilization, and riparian restoration.

Capay Open-Space Park, Yolo County, California. Principal-in-Charge to develop a Master Plan for a 42-acre park and natural area straddling Cache Creek. The Master Plan includes a trail system, creek restoration, interpretive elements, educational pavilion, and visitor serving facilities, including parking, picnic and shade shelter areas, restrooms, an outdoor education area, and signage and interpretive elements.

Shollenberger Park, Adobe Creek. Principal-in-Charge for development of public access, pedestrian bridge, biotechnical bank stabilization, and habitat restoration/planting plan for tributary channel to Petaluma River. The project included design of levee top and marsh, streetscape elements, and interpretive program.

Trestle Glen Bikeway Study, Tiburon, California. Principal-in-Charge for feasibility study and preliminary engineering design for the Trestle Glen segment of the San Francisco Bay Trail, a critical pedestrian/bicycle trail link between the Richardson Bay Multi-Use Path and Paradise Drive. The study identified project options and cost estimate for construction of a separated Class I pedestrian path, including a pedestrian bridge, boardwalk, retaining walls, utility relocation, and connections to local and regional trails. Structural measures, including the preliminary design of retaining walls, boardwalks, and under-grounding roadside ditches to provide a widened shoulder for path separation in constrained areas, were important elements of the preliminary design work. Questa also completed the CEQA document for the proposed project.

San Francisco Bay Trail, Wildcat Creek to San Pablo Creek, Richmond, California. Principal-in-Charge for preliminary engineering/feasibility study to determine a recommended alignment and design of a trail segment connecting the existing Wildcat Creek Bay Trail Spur to San Pablo Creek. The project involved coordination with agencies and landowners, including West Contra Costa Wastewater District, West County Landfill, and East Bay Regional Park District, to develop an alignment, management recommendations, and design that minimizes conflict between trail users and plant operations.

Arroyo Las Positas and Arroyo Mocho within the Town of Livermore. Principal-in-Charge for development of channel design and enhancement guidelines for channel modifications to improve drainage, in addition to a trail plan along creeks.

Mission Creek Restoration Plan for the Alameda County Flood Control District. Worked closely with Sydney Temple, PE, Questa Principal-in-Charge, for restoration and enhancement of 3,100 lineal feet of Mission Creek. Partnered with Fremont's Math/Science Nucleus, the project also included environmental educational opportunities. The work involved preliminary design, CEQA review document, all project permitting, final Plans and Specifications, bid documents, and construction oversight. The creek restoration work included the creation of a meandering low-flow channel with rock drop structures, planted terraces, riparian revegetation, biotechnical erosion control, and flood hazard reduction, replacement of an existing bicycle/pedestrian pathway and bridges, and construction of an outdoor classroom.

Experience

1989 -	Principal/Senior Scientist. Questa Engineering Corporation, Point Richmond, California
1988 - 1989	Regional Director. PACE Laboratories, Novato, California
1976 - 1988	Vice President and Founding Principal. Western Ecological Services Company.
1976 - 1977	Engineering Staff Appointment. Central Valley Regional Water Quality Control Board, Sacramento.
1975 - 1976	Staff Geologist and Soil Scientist. Earth Sciences Associates, Palo Alto, California
1973 - 1975	Environmental Planner and Scientist. SWA Group Landscape Architects and Planners, Sacramento and Sausalito, CA
1971 - 1973	Laboratory Technician and Research Associate, University of California, Davis, California

MARGARET HENDERSON
Senior Landscape Architect

- B.S., Environmental Planning and Management Specialization in Landscape Architecture, University of California, Davis
- Registered Landscape Architect - California, License #1689
- California Licensed Landscape Contractor #546439

Ms. Henderson has over thirty years of professional experience as a landscape architect and environmental planner. Her professional focus includes park and recreation and public access planning; use of native plant materials and recycled components in environmental design and natural areas restoration planning; biotechnical creek restoration and trails assessment. She has prepared recreation designs, public access, and interpretive plans for parks and natural areas in the cities of Hayward, Petaluma, Sebastopol, Sacramento, Novato, Colusa, and Oroville. Her experience preparing detailed plans and specifications includes Laguna de Santa Rosa, Fairfax Creek Restoration, Corinda los Trancos and Capay Open Space Park. Ms. Henderson completed public access planning for the City of Novato, Petaluma River Marsh, Adobe Creek, and City of Fremont Rail Trail. Her creek restoration experience spans California, and includes projects along the Petaluma and Russian Rivers, San Luis Obispo, Fairfax, and Adobe Creeks., and throughout San Francisco Bay and its tributaries.

Representative Assignments

Sonoma Baylands Bay Trail, Sonoma County. Design, coordination and permitting for implementation of one-mile Bay Trail segment on existing levees adjacent to Port Sonoma. The project also included an at-grade rail crossing, with appropriate design measures for pedestrian/bicycle use.

City of Novato Master Trails Plan. Project Planner for City of Novato Pedestrian Plan, including mapping, identification of trail links, policy planning, funding options and extensive outreach with a 13 member trails task force.

Grasslands Park Master Plan, Yolo County, California. Project Planner and Landscape Architect for 320-acre park Master Plan, south of Davis, California. The site mixes naturalized grassland areas, leased active recreation facilities (model plane soaring, horseshoe pits, and an archery course), and natural/created habitat areas.

Golden Gate Fields Interim Bay Trail Planning and Engineering Design, Albany and Berkeley, CA. For East Bay Regional Park District. Project Planner and Landscape Architect for planning and engineering design for 1-mile of proposed Bay Trail adjacent to Golden Gate Fields in Albany and Berkeley.

Bob Jones Multi-Use Path, San Luis Obispo County. Lead designer for proposed major regional trail as part of planned City-to-Sea route to provide a continuous Class I recreational trail between the coast and the City of San Luis Obispo along 6 miles of SLO Creek. Report examined physical and environmental constraints to establishing bicycle and pedestrian trails along three potential routes. Alternative trail alignments, design considerations, preliminary engineering design and cost estimate, and right-of-way acquisition needs were addressed.

Shollenberger Park, Adobe Creek. Designer, and permit coordination for Shollenberger Park, along the Petaluma River shoreline, which provides passive recreation opportunities for people to hike, cycle and enjoy the diverse wildlife and shorebirds who inhabit the park. Design and plan assistance over several phases since the Park's inception, to improve the habitat along Adobe Creek, to create new freshwater, tidal marsh, and riparian enhancement areas, improve water quality and circulation, create trails and provide environmental education opportunities for park users. The project includes approximately three miles of trails, three pedestrian bridges, boardwalks, created wetlands, habitat buffers, a fishing deck/river overlook, fencing, signage and site furnishings. Grant preparation on the City's behalf resulted in the City in securing grant monies of over $500,000 for project implementation, land acquisition, and an interpretive guide of the area.

Laguna de Santa Rosa Wetlands Preserve, Sebastopol. Public access trail planning, permitting, grant assistance, meetings and facilitation, plans and specifications, and construction assistance for multi-phased 40 acre passive park and riparian enhancement project. Components include almost a mile of new trail over the last several years, as well as an outdoor classroom, entry arbors, public areas, riparian restoration areas, site furnishings, seasonal pedestrian

bridge, water quality pond, boardwalk, interpretive elements and signage, as well as coordination with community groups and the CCC.

Fremont Union Pacific Rail Trail Feasibility Study. Project Designer for nine mile trail corridor to be completed adjacent to proposed BART Warm Springs Extension and active rail corridor. Project components include sensitivities/constraints analysis, evaluation of trail feasibility, separation and buffering, and extensive coordination and outreach with stakeholders, agencies and neighborhood groups.

Richmond Bay Trail Investigation, Chevron Facility, Point Richmond. Lead designer for proposed link between residential Point Richmond and Point Molate undercrossing. The study explored alternatives to current route on Hwy. 580.

San Francisco Bay Trail, Wildcat Creek to San Pablo Creek. This study was prepared to determine a recommended alignment and preliminary design of a trail segment connecting the existing Wildcat Creek Bay Trail Spur to San Pablo Creek. Responsible for coordination with agencies and landowners, including West Contra Costa Wastewater District, West County Landfill, and East Bay Regional Park District to develop an alignment, management recommendations and design that minimizes conflict between trail users and plant operations.

Petaluma Marina Trail. Lead designer for trail connection along Petaluma River shoreline to provide public access between existing park and Petaluma Marina.

Legacy Bicycle Trail. Lead designer for proposed one-half-mile bicycle and pedestrian path adjacent to Alman Tidal Marsh, with associated parking facilities, along former railroad R/W. Work included conceptual design, project permitting, and preparation of Plans and Specifications.

Trestle Glen Bikeway Study, Tiburon. Feasibility and preliminary design study for critical pedestrian/bicycle trail link between the Richardson Bay Multi-use path and Paradise Drive. The study identified project options and costs for completion of a separated pedestrian path, including a pedestrian bridge, utility relocation, and connections to local and regional trails.

Petaluma River Marsh Enhancement Plan. Lead designer for marsh enhancement plan including responsibilities for public access and river front facilities.

Hamilton Bay Trail, Novato. Lead designer for trail planning for Bay Trail Spur, associated with 2,500-acre wetlands restoration project.

Buena Vista Creek Enhancement Plan. Lead designer for public access planning, including trail design and landscaping for 3-mile stream reach in the City of Vista and San Diego County.

Cache Creek Riparian Restoration Plan. Lead designer for development of planting and revegetation plan, providing public access guidelines for restoration of portion of Cache Creek, near Woodland, California.
Gale Ranch. Public access and riparian restoration plan. for 7000 unit planned community in San Ramon, CA.

Interpretive Program for the American River Parkway, Sacramento County. Inventory of historic, archaeological and environmental features of the American River Parkway, and publication of an interpretive guide for visitors.

De Anza and Depot Parks, Hayward. Design and project management of two parks in Hayward, in response to input from neighborhood task force. The De Anza Park won a design award in 1977.

Professional Awards

- City of Novato General Plan Merit Award, American Planning Association
- City of Hayward, De Anza Park Design Award
- California Landscape Contractor's Association

Professional Affiliation

- American Society of Landscape Architects, Member

JEFFREY C. MARTIN, P.E.
Project Engineer

- B.S., Civil Engineering, University of California, Davis, 1990
- Registered Civil Engineer in California, 1998

Mr. Martin is a Project Engineer with Questa Engineering Corporation involved in the planning, design and construction management of infrastructure improvement projects. Mr. Martin has more than 15 years of experience in environmental remediation, infrastructure improvement and construction management. He has designed and constructed numerous infrastructure improvement projects, including landfill development and closure, geomembrane containment, and public access trails including preparation of construction documents, permitting, and construction management.

Representative Assignments

Top Flite Trail Bridge Installation Project. Marin County Open Space District. Project Engineer responsible for preparation of design, and construction documents for the installation of four bridges along the Top Flite Public Access Trail in San Geronimo, California. The public access element included design of three, 20-foot timber-framed and one, 40-foot pre-fabricated ADA accessible bridges over seasonal streams in an environmentally sensitive setting.

West Little Llagas Creek Trail Project. City of Morgan Hill. Project Engineer responsible for design and preparation of construction documents for the installation of the West Little Llagas Creek Public Access Trail in Morgan Hill, California. The public access element included design of one mile of ADA accessible paved trail and one 50-foot pre-fabricated ADA accessible bridge over the West Little Llagas Creek.

Bay Trail Feasibility Study/Preliminary Engineering Design, Sears Point Restoration Project. Sonoma Land Trust. Project Engineer responsible for technical support of feasibility study and preliminary design for a portion of the Bay Trail within the Sears Point Restoration Project. The public access element included design of ADA accessible trail, one highway under crossing and one railway over crossing.

Bob Jones Multi-Use Path, San Luis Obispo County. Project Engineer responsible for technical support of a feasibility study for a planned City-to-Sea route. The planned trail is part of a continuous Class I recreational trail between the coast and the City of San Luis Obispo along 6 miles of SLO Creek. This report examined the physical and environmental constraints to establishing bicycle and pedestrian trails along three potential routes. Alternative trail alignments, design considerations, a preliminary engineering and design cost estimate, and right-of-way acquisition needs were also addressed

BKK Landfill Storm Drain System Rehabilitation. State of California, Department of Toxics Substances Control. Project Engineer with E/RRG, responsible for the rehabilitation of failed storm drains in post-closure areas of the BKK Class I and Class III Landfills. The project included design and cost estimate, preparation of work plans and construction documents, construction management, and construction quality control.

West County Landfill Joint Utility Trench Project. Republic Services. Project Engineer with Republic Services responsible for design and construction of underground utilities for post-closure operations of existing Class I and Class II landfill units. The project included design and cost estimate, preparation of work plans and construction documents, construction management, and construction quality control.

Experience

2006 -	Project Engineer. Questa Engineering Corporation, Point Richmond, California
2004 - 2006	Project Engineer. Engineering/Remediation Resources Group, Inc., Concord, California
1998 - 2004	Project Engineer. Republic Services, Inc., Richmond, California
1995 - 1998	Site Engineer/Assistant Site Manager, Sanifill Corporation, Kekeha, Hawaii
1994 - 1995	Quality Control Engineer. C.W. Neal Corporation, Hollister, California.
1993 - 1994	Staff Engineer/Environmental Specialist. Blymyer Engineers, Alameda, California
1990 - 1993	Staff Engineer. GeoStrategies, Inc., Hayward, California
1989 - 1990	Research Assistant. Traffic Safety and Alternative Fuel Studies, University of California, Davis, California

WILLARD N. HOPKINS, PG, CEG
Senior Engineering Geologist

B.A. Earth Sciences, University of California, Berkeley, 1983
M.S. Geology, San Jose State University, 1987
Professional Geologist in California #5161, 1991
Certified Engineering Geologist in California #1761, 1993

Mr. Hopkins is a Registered Geologist and Certified Engineering Geologist in the State of California with more than 20 years of experience in performing geologic, geotechnical and environmental investigations and managing projects for new construction and remedial repair. For the past ten years, he has been employed by Questa Engineering Corporation as Senior Engineering Geologist with responsibility for oversight of Geotechnical, Engineering Geologic, Planning Geologic and Contaminated Soil and Groundwater Projects conducted by Questa. Many of the projects have included Bike and Walking Trail Elements. Experience in geotechnical design and construction, soil and hydrogeologic investigation and remediation, mineralogic analysis, and geologic investigations and explorations, as well as construction and remediation management and construction quality assurance monitoring has given Mr. Hopkins the ability to deal with all varieties of geologic and environmental hazards and engineered solutions and structures.

Representative Assignments

- *Trestle Glen Bikeway Study,* Geotechnical Feasibility and Investigation elements.
- *Bay Trail Routes, Richmond, California,* Geotechnical Feasibility Evaluation and Investigation.
- *Laguna de Santa Rosa Wetlands Preserve,* Geotechnical Feasibility Study, Investigation, Plan Review, and oversight of geotechnical services during construction for the multi-use trail project.
- *Shollenberger Park, Petaluma,* Geotechnical Feasibility Evaluation and Investigation for the multi-use trail project.
- *Legacy Phase II,* Geotechnical Investigation and Plan Review for the Parking Lot Expansion and Multi-use Trail project.
- Geotechnical Investigations for single-family residences.
- Geotechnical Investigations for Private Road and Highway Bridges.
- Geotechnical Investigations for Pavement Rehabilitation Projects, City of Richmond, California.
- Geotechnical Feasibility Studies for minor and major subdivisions.
- Geologic and Hazardous Material Planning Studies for residential subdivisions, commercial developments and mixed use projects.
- Geologic Planning Studies for trail projects.
- Geologic and Hazardous Material Planning studies for pipeline projects.

- Geologic Planning studies for Water Resource projects.

- Geologic Planning studies for stream bank stabilization projects.

- Construction Quality Assurance Officer and Project Manager for the Final Capping Project at the West Contra Costa County Sanitary Landfill, 1996-2002.

- Project Engineering Geologist for the Lake Canyon Wastewater Treatment System. Investigation, repair design and installation and testing for slope stability along two miles of utility trenches in steeply sloping, unstable terrain.

- Geologic hazards and slope stability analysis for Los Gatos Country Club Golf Course and Recreational Facilities.

- Engineering geologic analysis, design and construction inspection for the Potrero Hills Landfill Mitigation Pond Site. Project included design and installation monitoring of the 1,200-foot long, 14-foot maximum height earth fill dam.

- Slope stability and landslide repair designs for roads, residential housing, utility lines, and athletic facilities.

Experience

1994 - Present	Senior Engineering Geologist. Questa Engineering Corporation, Point Richmond, California.
1991 - 1994	Senior Geologist/Project Manager. Van Houten Consultants, Inc., Petaluma, California.
1990 - 1991	Project Geologist. ENGEO Incorporated, San Ramon, California.
1989 - 1990	Senior Mineralogist/Field Operations Manager. Micro Analytical Laboratories, Inc., Emeryville, California.
1988 - 1989	Staff Geologist. International Technology Corporation, Martinez, California.
1987	Staff Geologist. Seidelman Associates Inc., Pleasant Hill, California.
1985 - 1986	Geochemist-Mineralogist-Petrographer, Branch of Isotope Geology, U. S. Geological Survey, Menlo Park, California.
1985 - 1986	Consulting Geologist, State of Washington, Department of Natural Resources, Division of Geology and Earth Resources,
1984	Teaching Assistant, San Jose State University, San Jose, California
1983	Engineering Technician, Western Technologies Inc., Pinetop-Lakeside, Arizona

Additional Registration

- Hazardous Waste Operations Training per the Code of Federal Regulations
- Nuclear Safety Training according to the Code of Federal Regulations
- Sampling and Evaluating Airborne Asbestos Dust, National Inst. of Occupational Safety and Health
- Certification in polarized light microscopy and transmission electron microscopy for analysis of asbestos minerals in building materials, natural occurring asbestos, and air samples.

CARL H. NELSON, P.E.
Water Resources Engineer

M.S., Structural Engineering, Mechanics of Materials, University of California at Berkeley, 1998
B.S., Civil Engineering, University of California at Davis, 1997
Registered Civil Engineer in California, 2000

Mr. Nelson serves as a water resources engineer with over seven years of professional experience. His specific interests include design, analysis, and development of community-scale wastewater systems, with special emphasis on sustainability and environmental stewardship. His background and training include study and practice in wet and dry utility infrastructure, site development, erosion control, and appropriate technology. Mr. Nelson's experience with planning encompasses infrastructure evaluation, regulatory research, community presentations, and construction document preparation, including legal and regulatory research, field testing and evaluation, preliminary and final design, construction document preparation, and construction management and observation.

Representative Assignments

- *Redwood Boulevard Sanitary Sewer (Novato, CA)*. Project Manager for a sewer main extension entailing multiple jurisdictional review by City, County, Sewer District, and Caltrans. Project was a partnership between five distinct commercial entities with different financial contributions, and a reimbursement schedule was necessary to ensure that future connections would provide remuneration to the original partners.

- *East Shore Planning Group (Marshall, CA)*. Project Manager for existing conditions and improvement feasibility report for the coastal town of Marshall on the East Shore of Tomales Bay. Conducted door-to-door survey of existing septic system conditions, including evaluation of low-flow household features and hydraulic load and dye testing of tanks. Feasibility study identified conveyance, treatment, and disposal methods for a cluster system.

- *Schulz (Sausalito, CA)*. In conjunction with a site grading, drainage, and erosion control design for a new single-family residence, designed a rainwater harvesting system for interior laundry use. System is the first permitted rainwater harvesting system for interior residential use.

- *Nina Field Winery (Cloverdale, CA)*. Project Manager, Designer, and Field Engineer for winery and event center septic system in Sonoma County. Wastewater system designed for winery waste, peak event and residential flows, with consideration of groundwater concerns and floodplain extents.

- *Various Clients (Marin County, CA)*. Conducted 50+ septic system evaluations for real estate transactions. Evaluations included appropriate agency research, and assessment of existing system functionality and impact to prospective owners.

- *SBB (Forest Knolls, CA)*. Site investigation and subsequent septic system design for single-family residence in sensitive environmental area. Required development of an onsite treatment system appropriate for the site's proximity to creek habitat and steep slopes.

- *Costa Smeralda (Sardinia, Italy)*. Developed sewer and water infrastructure network to serve residential and commercial infrastructure in coastal development.

- *Presidio Trust (San Francisco, CA)*. Coordinated and designed street and utility improvements to residential area in the Presidio of San Francisco. Improvements included new dry utility service to residential units, bike line, and traffic calming island.

Experience

2005 - present	Questa Engineering Corporation, Point Richmond, California
2004 - 2005	Sherwood Design Engineers, San Francisco, California
2000 - 2003	CSW/Stuber-Stroeh, Novato, California
1999 - 2000	DASSE Design, Inc., San Francisco, California
1998	Engineering Intern, Triangle Engineering, San Francisco, California
1997	Engineering Intern, Culley Associates, San Francisco, California

IAN VARRIALE
Staff Landscape Architect

University of California at Berkeley Extension
Landscape Architecture Certificate Program

Since joining Questa as Staff Landscape Architect, Mr. Varriale has provided design drafting services on several trail/park planning and stream restoration and maintenance projects. Mr. Varriale's educational focus is in the area of public park design and circulation patterns, incorporating universal design principals as well development of recreation areas and planting plans.

Representative Assignments

- *Bob Jones City to Sea Trail*. Design drafting; worked with Landscape Architect and staff engineers to develop a recreational trail, including two plan alignments, trail cross sections and trail bend with parking for a 7-mile pathway along San Louis Obispo Creek in San Louis Obispo, California.
- *Ojai Meadows Restoration*. Design drafting, wetland restoration, vernal pool creation, stream channel grading, and profiles for an active restoration project.
- *Llagas Creek Trail*. Design Drafting, pedestrian bridge and pathway around Llagas creek in Morgan Hill, California.
- *Petaluma and Rohnert Park Channel Maintenance Project*. Drafting, wetlands delineation and planting zones, preparation of channel profiles and cross sections, for determination of sediment removal maintenance needs.
- *Santa Barbara Creek Restoration*. Design drafting; worked with staff engineers to develop grading plans, profiles and graphic representations for five stream restoration projects in Santa Barbara County, including road layout and public viewing access.
- *Presidio Trust Park*. Drafting, bike path and parking in Presidio Park San Francisco; researched low VOC materials for project use.
- *Loreto Bay*. Drafting, site planning, roadway design, and grading for sustainable community design in Baja California.

Experience

2006 - present	Staff Landscape Architect, Questa Engineering Corporation, Point Richmond, California
2005 - 2006	Design Drafting, Sherwood Design Engineers, San Francisco, California

CORRINE FOO MALEY
Landscape Architect

- **M.S.**, 1987, Landscape Architecture, California State Polytechnic University, Pomona
  Master's project: Mojave River Basin: Design for Desert Water Management
- **B.S.**, 1980, Biological Sciences – Ecology, University of California, Berkeley

Registered landscape architect with 20 years of experience developing plans and designs for parks, recreational facilities, and developments. She has worked on plans and designs for to improve recreational facilities at several large parks and open space areas in northern California. Her excellent computer and graphic skills have been used in developing numerous maps and drawing for client presentations and project graphics. She has strong interpersonal skills for working with clients and co-workers. She uses her organizational skills to efficiently work on projects. She has an extensive background and interest in parks and recreational areas starting from her work with the California State Parks to her more recent landscape architect experience with local and regional parks.

Representative Assignments

Playground Upgrade, Skytown Preschool, Kensington, California – Developed plans for a significant upgrade of preschool playground facilities. Coordinated with contractor and volunteer help to install large playground structure at school.

Recreational Area Planning, Santa Clara County Parks Department, Santa Clara County, California – Developed plans for major expansion of recreational facilities of Anderson Lake and Coyote Lake Parks to better accommodate the fast growing population in the South Bay. As project manager, developed plans and designs for expanding recreational facilities including campgrounds, swimming areas, and golf courses.

Recreational Area Planning, Joint Powers Authority, Carquinez Straits, California – Worked with Cities of Vallejo, Benicia, and Martinez for developing parks and trails along the Carquinez Strait. Developed several options for trail systems that connected with trails from other local and regional park trails. Worked on plans to link trails with bike and pedestrian access to the new Carquinez Bridge span.

Open Space and Recreational Area Planning, Joint Powers Authority, Solano County, California – Worked with Cities of Vallejo and Benicia and Solano County to develop plans to preserve large area of ranchlands as open space and recreational area. Planned recreational areas including locating trails, picnic areas, and scenic overlooks in areas with scenic value such as views, riparian area, or significant rock outcroppings. Developed trail system to connect different recreation areas within the zone. Worked with local landowners on incorporating issues such as an active rock quarry and with PG&E on development of area for wind power

Property Development, City of San Francisco, Alameda County, California – Worked on several components of large project to develop property owned by City of San Francisco in Pleasanton. Worked on Environmental Impact Report and Master Plan of 550-acre site. Project was to develop a planned residential community with single and multi-family dwellings, schools, office and retail space, parks, playgrounds, and open space.

Downtown Improvement Development, City of Antioch, Contra Costa County, California – As part of a downtown improvement projects along the shoreline of Sacramento-San Joaquin Delta. Project included plans and designs for boardwalk, observation decks, and trail systems to draw people into the downtown area.

Downtown Improvement Development, City of Crescent City, Del Norte County, California – Project included plans and designs for improvements to the downtown area along the shoreline of the Pacific Ocean to draw people into the downtown area. The project included the development of a shoreline trail system as part of this improvement.

Experience

1997-present: Landscape Architect Associate, San Pablo, California – Worked on a part-time, contract basis. Developed plans and helped coordinate volunteer effort to install playground structure for a preschool. Other projects include developing plans and designs for individual residential projects.

1987-1996: Landscape Architect, The Planning Collaborative, San Francisco, California – Worked on a wide range of projects for trails, parks, campgrounds, playgrounds, and waterfront restorations. Project manager for upgrade of recreational facilities at Anderson Lake and Coyote Lake Parks in Santa Clara County. Worked on developing plans and layouts for several large residential and commercial developments. Used computer and presentation skills to develop project presentations to clients.

1986-1987: Graduate Assistant, Department of Landscape Architecture, Cal Poly Pomona – Worked as an assistant in the Computer-Aided Instruction Lab to provide help for students with computer use and printing, and assisted with department purchasing.

1986: Planning Intern, City of Chino, California – Assisted city personnel by developing graphics, providing research assistance, and checking plans.

1981-1983, 1985-1986: Park Aide, California Department of Parks and Recreation, Lake Tahoe, California – Worked summers as a park aide. Tasks included working in the visitor's services center and providing interpretive tours of D.L. Bliss and Emerald Bay State Parks.

Registrations

Registered Landscape Architect, California, No. 3987

Professional Awards and Memberships

- ASLA Graduate Merit Award – 1987
- Member, Sigma Lambda Alpha Honor Society

Skills

- Knowledge of and experience in ecosystematic landscape analysis, planning and design
- Knowledge of water management and water conservation methods in landscape
- Strong computer skills in WORD, EXCEL, Microsoft Project, PageMaker, AutoCad, LandCADD
- Ability to work independently or in a group situation
- Experiences with report organization and layout
- Organization and production of slide show presentations
- Use of IISIS Geographic Information Systems

BARRY J. VANDERENT
Designer/Draftsman

Barry J. Vanderent would provide designer/drafting services. Mr. Vanderent has 20 years of hands-on AutoCAD management and production support experience in multi-discipline AEC environments, with two years of experience as an AutoCAD AEC application sales engineer. He has a wide range of experience integrating various CAD applications on design and engineering projects using AutoCAD/ADT/LDD/MAP 2006, Microstation and SoftDesk. He often lends direct production support on high-profile projects, using specialized CAD applications and technologies including 3D CAD and animation. Formerly a CAD Manager overseeing the operations of entire CAD departments, providing technical leadership and direction to CAD groups as a whole, Mr. Vanderent brings a high degree of diversity, knowledge, and understanding to Engineering/CAD-related projects. His project experience has included multi-disciplinary plant design, environmental/remediation mapping, residential/subdivision, wastewater treatment design, solid waste/landfill and earthworks, utility/pipeline, fossil fuel & nuclear power, and telecommunications infrastructure.

Assignments

- Providing CAD systems analysis and management to senior project engineering staff in support of projects requiring specialized CAD applications.
- Creating and editing improvement plans, grading plans, plot plans, final maps, erosion control, and street sign and lighting drawings.
- CAD Drafting production support on residential and commercial projects.
- Supervision of CAD and graphics illustration staff in support of engineering and mapping projects, while providing direct production support on key projects
- Coordination of CAD/GIS-based projects using 3D digital terrain modeling and imaging applications.
- Developing and directing programming efforts in areas of design automation and GIS applications.·

Experience

2006 - present	Designer/Draftsman, Questa Engineering Corporation, Pt. Richmond, CA
2004 - 2006	Eng. Tech III/CAD manager, Carlile Macy
2002 - 2004	CAD Manager, MACTEC Inc. (aka Harding Lawson & associates)
2000 - 2002	CAD Designer, KC Future-planning, San Francisco, CA
1998 - 2000	AutoCAD AEC Sales/Application Engineer, Desktop Products (AutoDesk VAR), Emeryville, CA
1991 - 1998	CAD Systems Analyst, Brown & Caldwell Architects/Engineers, Walnut Creek, CA
1989 - 1991	Customer Help Desk support, Virtual Systems, Walnut Creek, CA
1987 - 1989	CAD Manager, Micro-Solutions International, Benicia, CA
1986 - 1987	CAD Technician, Comstock Engineering Inc., Walnut Creek, CA
1984 - 1986	CAD Designer/Drafter, Impell Corporation, Walnut Creek, CA

Education/Training

- Windows NT and Banyan Vines advanced systems administration certification
- Bechtel - Computer Aided Design training (Intergraph 3D and AutoCAD)
- Hewlett Packard - Advanced PC diagnostics, microprocessors
- AutoDesk/Motiva systems - Motiva 3.0 Document management systems

Nicolas B. Duffort
Staff Biologist/Environmental Scientist

B.A. Environmental Studies, University of California, Santa Cruz, 2005

Mr. Duffort provides a variety of services related to project design, implementation, and maintenance. During the project conceptual phase, Mr. Duffort often prepares Biological Assessments and Jurisdictional Wetland Reports, developed through field surveys and literature review. These analyses are used to determine a project's potential impacts, and are critical to developing project plans that minimize impacts to the natural environment. Mr. Duffort has a great deal of experience preparing permit applications for submittal to various jurisdictional agencies, both local and federal, as well as drafting a variety of CEQA documents. During the implementation phase, Mr. Duffort often oversees project construction, to ensure that work proceeds according to plans, and using environmentally conscious methods. This includes overseeing the implementation of mitigation projects related to improving wetlands, riparian areas, and other natural habitats. Mr. Duffort frequently develops and implements these mitigation projects himself, and has managed a number of restoration planting projects throughout the Bay Area. To ensure ongoing success, Mr. Duffort monitors such projects and implements adaptive management strategies. In addition to these services, Mr. Duffort is often responsible for project management activities including time and budget management.

Representative Assignments

- Performed field delineation of wetlands and authored Preliminary Jurisdictional Wetlands Report, per US Army Corps of Engineers regulations, for project involving desilting and vegetation management along Adobe Creek in Petaluma.
- Performed field delineation of wetlands and authored Preliminary Jurisdictional Wetlands Report for project involving maintenance of ten creek reaches within Sonoma County.
- Performed field delineation of wetlands and authored Preliminary Jurisdictional Wetlands Report for project involving creek reconstruction in Oakland.
- Performed field delineation of wetlands and authored Preliminary Jurisdictional Wetlands Report for a feasibility study of a potential San Francisco Bay Trail connector in the cities of Napa and American Canyon.
- Authored Biological Assessment of project reach at Shollenberger Park, Petaluma California. Report included strategies for avoiding impacts to sensitive species.
- Authored Biological Assessments for a creek reconstruction project in Oakland. Report included strategies for avoiding impacts to sensitive species.
- Authored Biological Assessments for ten creek reaches within Sonoma County. Report included strategies for avoiding impacts to sensitive species.
- Wrote permit applications for creek maintenance projects (vegetation removal and desilting) along three reaches of Adobe Creek in Petaluma, including applications to the US Army Corps of Engineers, the SF Bay Regional Water Quality Control Board, and the California Department of Fish and Game. Also drafted the CEQA Mitigated Negative Declaration.
- Wrote permit applications for a creek stabilization project in Fairfax, including applications to the US Army Corps of Engineers, the SF Bay Regional Water Quality Control Board, and the California Department of Fish and Game.

- Worked in conjunction with developers to develop and implement a planting plan as mitigation for development adjacent to Adobe Creek. Also provided field monitoring and developed adaptive management strategies.
- Developed and implemented planting plan for Petaluma River Maintenance Project, including identifying areas of the river that needed canopy cover and erosion control.
- Performed field monitoring for vegetation management phase of the Petaluma River Maintenance Project. Work included flagging trees to be removed or kept, surveying for the presence of endangered species, preventing hazardous materials from entering the river, and meeting with contractors, engineers, and land-owners.

Experience

2005-Present	Staff Biologist, Questa Engineering Corporation, Point Richmond, California.
Spring 2005	Biological Research Assistant to Dr. Karen Holl, Santa Cruz, California.
Fall 2004	CA State Parks Restoration Intern at Wilder Ranch, Santa Cruz, California.

LARRY ORMAN Biographical Information

1995 – Current **Executive Director, GreenInfo Network**
San Francisco, California

Founder and director of non-profit consulting organization whose mission is to bring the power of computer mapping (Geographical Information Systems, or GIS) to public interest organizations. Staff of eight in two offices. Client groups include The Nature Conservancy, California Child Care Resource and Referral Network, the Packard Foundation's Conserving California Landscapes Initiative, The Bay Institute, The California Endowment, Peninsula Open Space Trust, Conservation Technology Support Program and many others.

1996 – Current **Organizational Development Consultant**
Berkeley, *California*

Consultant to non-profit organizations -- strategic planning, administrative systems and executive coaching.

1976 – 1995 **Executive Director, Greenbelt Alliance**
San Francisco, California

Director of 35-year old non-profit organization concerned with the metropolitan planning and open space needs of the nine county San Francisco Bay region. Primary results include protection of over 700,000 acres of farmland and other open land and creation of over $450 million for park and open space acquisition. Major projects included:

- Greenbelt 2000 Campaign, Begun 1990, ongoing: campaign to secure protection for at least 75 percent of at-risk open space in the Bay Area, through policy development and advocacy for urban growth boundaries, support of local citizen groups, research and public education, support of appropriate infill development and expansion of base of Greenbelt supporters.
- Bay Vision 2020 Project, 1987-1993: initiation of jointly-sponsored effort by business, environmental and government leaders to create a blue-ribbon civic commission to address Bay Areawide land use problems, and to subsequently establish an action coalition and legislation to implement recommendations for limited function regional government in Bay Area.
- OTHER PROJECTS: Housing/Greenbelt Project, 1981-83: major study proposing strategies for meeting housing demand and protecting a permanent Greenbelt of open space; project report, *Room Enough: Housing and Open Space in the Bay Area*; Farmlands Conservation Project, 1978-80: first major study of agricultural land in San Francisco Bay region; project recommendations favorably received and widely considered in Bay Area; project report, *Endangered Harvest: The Future of Bay Area Farmland*, received 1982 national American Planning Association award for Outstanding Planning Program; Other Research, 1982-1990: extensive research on land use ballot measures in Northern California; resulted in manual on initiatives and referendums, University of California-published article, and ongoing series of workshops on technical issues concerning land use ballot measures.

1982 – 99 **Visiting Lecturer, Department of City and Regional Planning**
University of California, Berkeley

Instructor for 9 graduate level courses: metropolitan regional plan preparation, natural resource conservation, housing, introduction to planning, advanced land use controls and environmental planning and regulation

1968-72, 1974-76 **BA Environ. Design; Masters of City and Regional Planning**, UC Berkeley

2006 Distinguished Alumnus Award, UC Berkeley College of Environmental Design

RYAN BRANCIFORTE Biographical Information

2005 – Current	**GIS Specialist, GreenInfo Network** *San Francisco, California* Develop and implement GIS projects including Bay Area Ridge Trail Council GIS, Greenbelt Alliance BARLIS framework and "Lands At Risk" system, and many other projects. Support conservation priority analysis for Bay Area Upland Goals Project. Develop and manage Bay Area Open Space Database and statewide GreenInfo Network Protected Lands Inventory. Skills include full range of GIS data and analysis, presentation mapping, project management, GPS and other field data approaches.
2001 – 2005	**Assistant Lab Manager, Sonoma Ecology Center** *Sonoma, California* Overall manager of GIS contracts and projects, provision of GIS and GPS support to all Center projects, computing system and web site management.
2004	**GIS/GPS Volunteer, Orangutan Foundation International** Borneo Developed field data to support OFI GIS framework, mapping trails, rivers, logging impacts and animal locations.
1999-2001	**Biological Science Technician, National Park Service** Joshua Tree National Park Maintained GIS wildlife database, provided GPS support for park resource division, conducted field surveys for endangered species, prepare display maps, trained and managed park interns working in the field.
1998	**Field Naturalist, Tombopata Jungle Lodge** Peru Educated guests in tropical rainforest ecology, assisted biologists with field studies.
1998	**BS, International Relations, Certificate in Environmental Studies**, University of Washington, Madison

John J. Ciccarelli

Bicycle Solutions / www.bicyclesolutions.com

Email: johnc@bicyclesolutions.com / Tel: 704-807-4736

KEY QUALIFICATIONS

- *Excellent oral, written, and online communication skills including workshop facilitation and seminar leadership. Talented at explaining technical concepts concisely, simply, and understandably to all audiences, in small- and large-group settings*
- *Experienced planner and designer familiar with layout of streets, paths, intersections and interchanges for bicycle and pedestrian accommodation and safety*
- *Experience creating campus, corridor, city, county, regional, and special-facility bicycle plans*
- *Recognized leader in bicycle planning, education, and technical-standards areas*

EXPERIENCE

CORRIDOR AND INTERSECTION STUDIES AND DESIGNS

Union Pacific Railroad Corridor Trail Feasibility Study, (Fremont, CA), 2006-07. Alignment alternatives and concept plans for intersections along nine-mile rail & future BART corridor. Field work, neighborhood outreach, detailed intersection and spur trail concepts.

Coyote Creek Trail Reach 5&6 Infrastructure Evaluation Study (San Jose, CA)*,* 2004-05. Study of improvements needed to bring 1.2-mile segment of existing trail up to County standards. Produced illustrated report.

MacArthur Boulevard Bikeway Study, Park Boulevard to Lincoln Avenue (Oakland, CA)*,* 2005-06. Analyzed feasibility of adding bike lanes to two-mile segment, with shared-roadway alternative in westbound direction. Included design of one-block path connector.

Market Street Bike Lanes Signing & Striping Plan (Oakland, CA)*,* 2005-06. Designed bike lane striping and bike route signage for two-mile multi-lane segment.

40th Street Bikeway Feasibility Study (Oakland, CA)*,* 2005. Analyzed traffic, parking, transit on 1.3 mile segment of multi-lane street for adding bike lanes.

Foothill Boulevard Design Charrette (Claremont, CA), 2004. Member of consultant team that conducted a multi-day workshop for conceptual redesign of a one-mile segment of a four-lane arterial street and its commercial frontage. Conducted walking audits with residents and officials. Produced dimensioned concept sketches for lane reduction, curb extensions, enhanced crosswalks, and improved pedestrian routes through commercial parking lots.

College Terrace Neighborhood Traffic Calming (Palo Alto, CA)*,* 2004 (Neighborhood volunteer). Coordinated three license plate surveys at 20 locations with 60 volunteers. Identified issues with consultant.

Almond Avenue Safe Routes To School (Los Altos, CA), 2002-03. Traffic calming and walkability plan for one-mile collector with elementary and high school including roundabouts and modified-T intersections. Four public meetings, outreach.

El Camino Real Context Sensitive Design Study (Palo Alto, CA), 2002-03 (Advisory Group member). Advised on ways to improve bicycling and walking along and across four-mile segment of six-lane, 45K ADT commercial arterial.

City of Sunnyvale, CA 2000-01. Study for roundabout at collector/local street intersection. On one-third-mile street, designed neighborhood traffic circle; options for calming rest of street.

BICYCLE PLANS, STUDIES AND DESIGN WORK

Sunnyvale (CA) Bicycle Plan Update*,* 2005-06. Comprehensive update of city plan, policies. Addition of neighborhood signed routes and traffic-calmed bicycle routes.

Treasure Island Transportation Plan*,* 2005. Reviewed street typologies, street and path network, transit hub design for “green” redevelopment of island in San Francisco Bay.

Program includes bike storage at residences and transit hub, bike route linkage to Bay Bridge bicycle path, car-sharing, incentives to reduce single-occupant vehicle trips.

San Jose (CA) Airport Bicycle-Pedestrian Master Plan, 2004-05. Technical lead on plan for three build-out phases. Field inventory, coordination with adjacent trail and interchange projects. Worked with Airport Master Plan teams, created maps, presentation, report.

Bicycle Transportation Strategic Plan (L.A. County Metro), 2004-05. Study of 170 transit hubs for future bike route improvements. Created analysis and ranking matrix. On-bike audits of half-mile areas around 12 sites. Visited local agencies, presented findings.

City of Menlo Park (CA) Bicycle Plan, 2004. Field surveys, conceptual design for bike lanes on multilane arterial including freeway interchange.

Expressway Bicycle Accommodation Guidelines (Santa Clara County, C.A), 2002-03. With staff, created standards document for bicycle accommodation (striping, signage).

MTC San Francisco Bay Area Regional Bicycle Master Plan, 2001. Responsible for Santa Clara County and San Mateo County data and routes, plus Education.

Alameda County (CA) Countywide Bicycle Plan, 2000. Responsible for field work and improvements list for South County and Tri-Valley, also Education chapter.

Houston/Galveston Bicycle/Pedestrian Special Districts Study, 2003-04. Analyzed issues and opportunities in high-scoring districts within eight-county area. Public workshops.

High School Student Bicycle Route Study, Palo Alto (CA) Unified School District, 2001. Studied student bike routes from two miles away. Met parents, produced illustrated report.

City of Palo Alto (CA) Bicycle Plan, 1999 – 2000. Field work and proposed improvements for one-third of city. Bicycle parking inventory, education chapter.

Stanford University (Bicycle Program Manager), 1995-1998. As Stanford's first Bicycle Program Manager, reviewed plans for streets, paths, transit malls, parking and buildings during a three-year period of major changes to campus streetscape and circulation. Created and implemented $600K Bicycle Faciilities Plan. Created departmental bicycle program.

Richmond – San Rafael Bridge / I-580 Bicycle/ Pedestrian Study, 2003-04. Analysis of feeder routes, interchanges, conceptual design of bikeway on 4.3 mile bridge across SF Bay.

Union Pacific Railroad Rail-With-Trail Feasibility Study, 2001. Designed, conducted and summarized survey of potential trail users. Presented results.

ON CALL PLANNING, DESIGN, AND TRAFFIC SAFETY REVIEWS

City of Menlo Park, CA, 2001 – 2003. On-call bicycle planning/engineering (striping, detection, school routes, plan checks). Bike lane plans for two streets. Advised on restriping and redesign of two US-101 freeway interchanges.

Santa Clara County (CA), 1999-2005. Plan reviews and on-bike field reviews of pavement, striping, signing of expressways for bicycle suitability. Produced illustrated reports.

Palo Alto Unified School District, 2001-03

- Reviewed bike access/parking for middle school.
- Redesigned bicycle access to middle school from adjacent path across parking lot to improve safety and motorist awareness.
- Studied drop-off, parking, bike/ped access to high school. Suggested parking and circulation changes.
- Redesigned high school parking lot to reduce car/bike conflicts and create a bicycling/walking route into campus from major citywide trail.

UC Berkeley ITS Traffic Safety Evaluation Program, 1999-2005. Program offers free two-day on-site reviews to CA cities. Evaluated 50 cities, wrote illustrated reports for each.

NASA Jet Propulsion Laboratories, Pasadena, 2002. Three-day on-site review for Occupational Safety Office. 50-page illustrated report with recommendations for vehicles including low-speed and two-wheel types, bicycles, pedestrians.

SCHOOL PEDESTRIAN SAFETY

City of Covina, CA, 2002. Recommended pedestrian safety and pickup/dropoff improvements at two schools, including new turnaround at middle school.

City of Orinda, CA, 2002. Recommended improvements for pedestrian safety and traffic calming near Sleepy Hollow Elementary. Suggested changes to pickup/dropoff area, bus routes, and walkways. Presented at neighborhood meeting.

City of Sonora, CA, 2001. Recommended pedestrian safety and traffic calming improvements at high school. Photo visualization of street and parking changes.

City of Salinas, CA / Monterey CO Dept of Health, 1998. Counted and mapped walkers to large elementary school. Met students, public health staff, parents, principal, police, traffic engineer, commissioners, and bus driver. Recommended street and sidewalk features, bus routing, safety promotions.

SEMINAR DEVELOPMENT AND LEADERSHIP

Sharing The Streets: Cars, Trucks and Bicycles (UC Berkeley Tech Transfer class TS-06), 2004-05. Developed 1-day workshop for engineers and planners covering on-street bicycle accommodation. Presented 3 times.

Caltrans Non-Motorized Travel Training Program, 2003-04.
Co-created 8-module PowerPoint slideshow and instructor notes for 1-day workshop on bicycle accommodation on roadways and interchanges, for statewide training of state DOT's engineers and planners.

Design for Safe Bicycle Accommodation, LA County MTA, 2002. Created all-day workshop covering options for creating bicycle travel width on streets, plus ways to safely connect trails to streets and intersections. Presented to 75 planners and engineers. On second day, conducted one-hour plan reviews of selected city projects with staff from throughout the county.

League of American Bicyclists "Bike Ed" Program, League Certified Instructor (LCI) #453, 1996- present. U.S. national bicycle driver-ed program; 20-hour instructor qualification.

EDUCATION

Selected professional development courses

Designing Sidewalks for (ADA) Access, FHWA, 2002
Traffic Calming, UC Berkeley Extension, 2000
Fundamentals of Traffic Engineering, UC Berkeley Extension, five days, 1999
Roadway Safety Analysis, UC Berkeley Extension, 1999
The Technique of Town Planning, Andres Duany, three days plus four-day / five-project tour, 1998
Modern Roundabouts, Capacity analysis, geometrics, simulation, 1997

***University of Maryland, College Park**, BS, Electrical Engineering, cum laude, Dec 1977*

PROFESSIONAL AFFILIATIONS

National Committee on Uniform Traffic Control Devices, Bicycle Technical Committee (NCUTCD-BTC)
Institute of Transportation Engineers (ITE), Associate Member
Association of Bicycle and Pedestrian Professionals (APBP)
League of American Bicyclists (LAB). Life member, League Cycling Instructor #453-CK

ADVISORY COMMITTEE EXPERIENCE

(BAC/BPAC = Bicycle/[Pedestrian] Advisory Committee)

El Camino Real Context Sensitive Design Study (Palo Alto, CA), 2002-03 (Advisory Group member). Advised on ways to improve bicycling and walking along and across four-mile segment of six-lane, 45K ADT commercial arterial.

Caltrans Nonmotorized Travel Team, 2003. Invited contributor at Caltrans headquarters internal working group discussing changes to design standards, including bicycle and pedestrian accommodation through interchanges.

San Francisco - Oakland Bay Bridge BPAC, Member 1997-1999. With Caltrans and consultants, developed functional requirements for future multi-use paths on 4.5-mile bridge across San Francisco Bay.

County of Santa Clara (CA) BAC, Charter member / Chair 1992-1998. Served on working group for 1996 "Measure A+B" county ballot initiatives (9-year 1/2-cent sales tax, $1.1 Billion for highway / transit / bikes).

Caltrain BAC, Santa Clara County Alternate, 1991-94. Advised on startup of Bikes On Board program, design of on-board racks, signs, and "bike destination tags". Trains now carry up to 64 bikes; highest bike boardings in North America.

PUBLICATIONS

Bicycle Boulevards case study, UNC Highway Safety Research Center, 2003

Major contributor to APBP Bicycle Parking Guidelines, a booklet for planners and developers, 2002.

"Bicycle Boulevards", in ITS Tech Transfer newsletter, UC Berkeley Institute for Transportation Studies, Fall 1999.

"Caltrain 'Bikes On Board' Program", article in Improving Conditions for Bicycling and Walking: A Best Practices Report, by Rails-To-Trails Conservancy and APBP for Federal Highway Administration, 1998.

Steven C Christiano - Consulting

Twenty years of experience as a Graphic Facilitator / Process Consultant to a wide variety of organizations in the public and private sector. Current clients include major environmental, conservation, educational research, health, and human service organizations.

PARTIAL CLIENT LIST - Multi-Stakeholder Processes

Australian Commonwealth Government
- Public meeting processes to develop community-based plan for ecologically sustainable development in new international biosphere reserve, Southern Australia.

California Trails and Greenways Conference
- Trail Users Caucus session. Trail users and trail advocacy organizations met to find common ground

Central Valley Habitat Joint Venture
- Interagency/NGO meeting to achieve objectives for protection and restoration of wetlands habitat.

EIP Associates
- Public processes for Yolo Habitat Management Program.

Environment Education Roundtable of Marin
- Facilitation of public meetings bringing environmental groups, business and education together to develop a unified vision for environmental education in Marin.

Friends of Corte Madera Creek – Marin County
- Facilitation of Public & Advisory Council Meetings – comprised of public agencies, NGO's and private "interested parties" working towards development of Watershed Plan for Corte Madera Creek.

Giant Sequoia Ecology Collaborative
- Public agencies with stewardship responsibility for groves of Giant Sequoia meeting to develop joint strategies for research and education.

Golden Gate National Recreation Area
- Public workshops envisioning the Presidio of San Francisco becoming a National Park
- Public meetings regarding dogs and endangered species on San Francisco beaches

Malibu Bay Company
- Public workshops to develop consensus on a proposed civic center design in Malibu California.

Placer County Executive Offices
- Multi-stakeholder conflict resolution regarding environmental issues in Tahoe City, Lake Tahoe.

Point Reyes National Seashore
- Public and internal meetings regarding updating the Park's Wilderness Plan

Regional Wetlands Ecosystems Goals Project (San Francisco Bay and Delta)
- Process consultant and facilitator for interagency planning effort. Participants include BCDC, RWQCB, U.S.FWS, DFG, RA, U.S.EPA, DWR, NMFS, NBS.

Restore the Delta
- Public meeting resulting in a coalition of unlikely partners creating a grassroots campaign of residents and organizations committed to restoring the California Delta

Tahoe Coalition of Recreation Providers
- Development and facilitation of a series Lake Tahoe Basin conferences and meetings supporting the formation of a new regional organization.

Tahoe Community Forums
- Public meetings to gather input on environmental issues in the Tahoe Basin

The Nature Conservancy
- Extensive public outreach for Guadalupe-Nipomo Dunes Preserve in California.
- Center for Compatible Economic Development ... community based efforts in Saquache County Colorado and Adams County Ohio directed towards developing community-based strategic plans to strengthen the economy, conserve the environment, and retain community character.

John W. McCarthy
Environmental Compliance Specialist

GANDA

PROFESSIONAL HISTORY

2001 to present	**Regional Manager,** Garcia and Associates, San Anselmo
1997 to 2001	**Registered Professional Forester,** Sierra Pacific Industries, Weaverville
1994 to 1997	**Reforestation Specialist,** Sierra Pacific Industries, Weaverville
1993	**Consulting Forester,** Belden Forestry, Weaverville
1990 to 1992	**Agroforestry Extension Agent,** United States Peace Corps, Bolivia

Mr. McCarthy manages the technical staff at GANDA's headquarters in San Anselmo, Marin County, CA. He has more than 15 years of experience providing public and private-sector clients with environmental services. Mr. McCarthy is experienced with National Environmental Policy Act (NEPA) and California Environmental Quality Act (CEQA) compliance; he leads all planning phases from field surveys, scoping, baseline data, public participation, impact analysis, and preparing and reviewing proponents' and regulatory agencies' documentation. He is knowledgeable in a multitude of permitting processes. Mr. McCarthy has managed and prepared Initial Studies, Preliminary Environmental Assessment Reports (PEAR), Natural Environment Studies (NES), Environmental Assessments (EA), Biological Assessments (BA) and cultural and biological components of EIR/EISs.

Sonoma-Marin Area Rail Transit (SMART) EIR/EIS. (2003-7) Mr. McCarthy serves as task manager for all wildlife, vegetation, wetland and cultural resource components of the environmental process. On this proposed 70-mile commuter rail project he has coordinated field surveys that include a wetlands delineation and special-status species surveys; consultation with agencies; and preparation of a NES, Archaeological Survey Report, Historic Architectural Resources Report, Wetlands Report, and corresponding EIR/EIS chapters. References: Lillian Hames at (415) 492-2855 or Vicki Hill at (707) 935-9496.

Caltrans District 4 On-call Biological and Cultural. Since 2002, Mr. McCarthy has managed GANDA staff providing on-call environmental consulting services to Caltrans District 4 (SF Bay Area). Resources specialists work full-time in the District 4 Oakland offices as associated environmental planners. Specifically, GANDA is responsible for assisting with archaeology, architectural history, wildlife biology, botany and permitting services. Reference: Moujan Mostaghimi, Contract Manager, (510) 286-4488.

Clipper Yacht Harbor Basin 2 Renovation IS/ND. City of Sausalito (2005/6). As project manager, coordinated the CEQA process for a proposal to replace a dock system in the San Francisco Bay. Reference: Ben Noble, Associate Planner, (415) 289-4131.

Natural Environment Studies. Mr. McCarthy has managed four Natural Environment Studies (NES) for FHWA and Caltrans involving bridge replacement, highway widening, and commuter rail projects. The NESs served in NEPA and CEQA compliance and to support permit applications to CDFG, State Water Quality, U.S. Army Corps of Engineers, and in Section 7 consultation with NOAA Fisheries and USFWS.

San Pedro Court EIR. County of Marin (2005). Provided forestry and fuels input as well as project management in preparation of all biological and cultural investigations for a proposed housing development on a parcel with streams, a wetland, a heron rookery and historic buildings.

Milpitas Bike/Pedestrian Trail. Managed Biological Constraints Survey and Historic Property Survey Report/Archaeological Survey Report for a pedestrian/bike path in Milpitas, California. These studies were conducted in order to assist the City of Milpitas in meeting their NEPA and CEQA requirements.

Lake Merritt Channel Bridge Replacement. Coordinated biological and cultural resource investigations for the replacement of a bridge on Embarcadero over the Lake Merritt Channel between Estuary Park and Interstate 880 in Oakland, California.

Freeport Regional Water Project EIR/EIS. Served as Project Manager for all wildlife, botanical, wetland and cultural components of an EIR/EIS.

River Road Bridge Replacement (2001)**.** Managed technical studies and prepared an NES for a bridge replacement on the Salinas River for the County of San Luis Obispo County. Staff prepared all cultural, wildlife, botany and fisheries studies, and conducted Section 7 and Section 106 consultation. Mr. McCarthy prepared reports for air quality and hazardous materials. The NES was prepared with sufficient detail to support all natural resource agency permit applications.

Price Canyon Road Widening (2001)**.** Managed technical studies and prepared an NES for a road widening that included two bridges for the County of San Luis Obispo. Biological resource surveys included those for the federal- and state-listed plant Pismo clarkia, steelhead, California red-legged frog, and bats. Cultural resource studies examining potential impacts on a Chumash village site along the DeAnza Trail were prepared in compliance with Section 106.

Preliminary Environmental Analysis Reports (PEAR) for two Transportation Projects in the City of Carpinteria, CA. Prepared reports that recommended environmental studies, and determined the CEQA and NEPA documentation that would be required. Established time schedules and cost estimates for gaining environmental clearance.

Environmental Assessments, U.S. Forest Service. Since 2001, Mr. McCarthy has led six NEPA compliance efforts that included Environmental Assessments in support of Findings of No Significant Impacts.

Freeport Regional Water Project EIR/EIS. (2002/3) Project Manager for all wildlife, botanical, wetland and cultural components of an EIR/EIS for East Bay Municipal Utility District/ Freeport Regional Water District.

EDUCATION

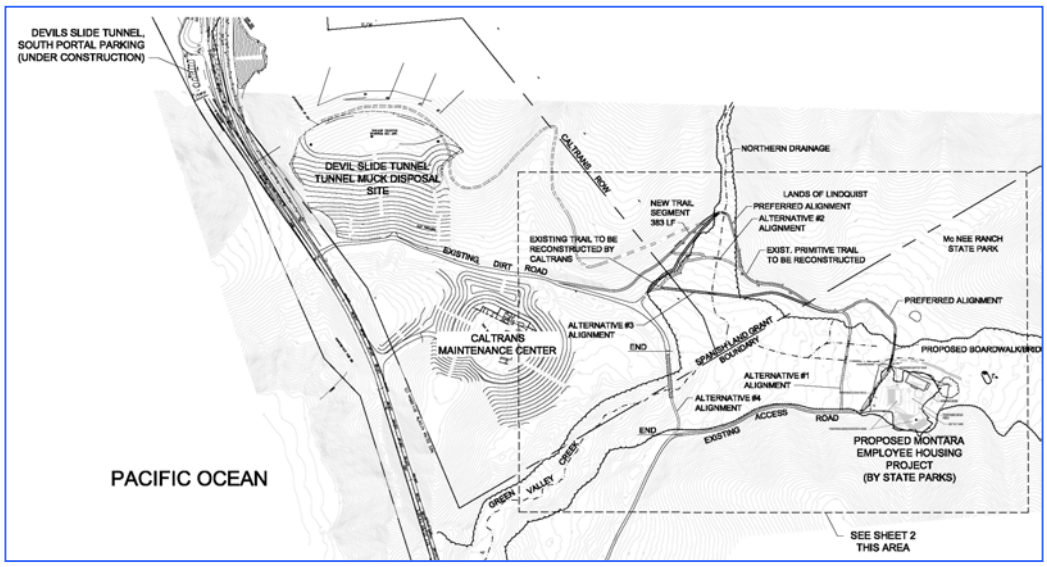
Masters of Business Administration, California State University at Chico, 1999

B.S. in Forest Management, University of California at Berkeley, 1989

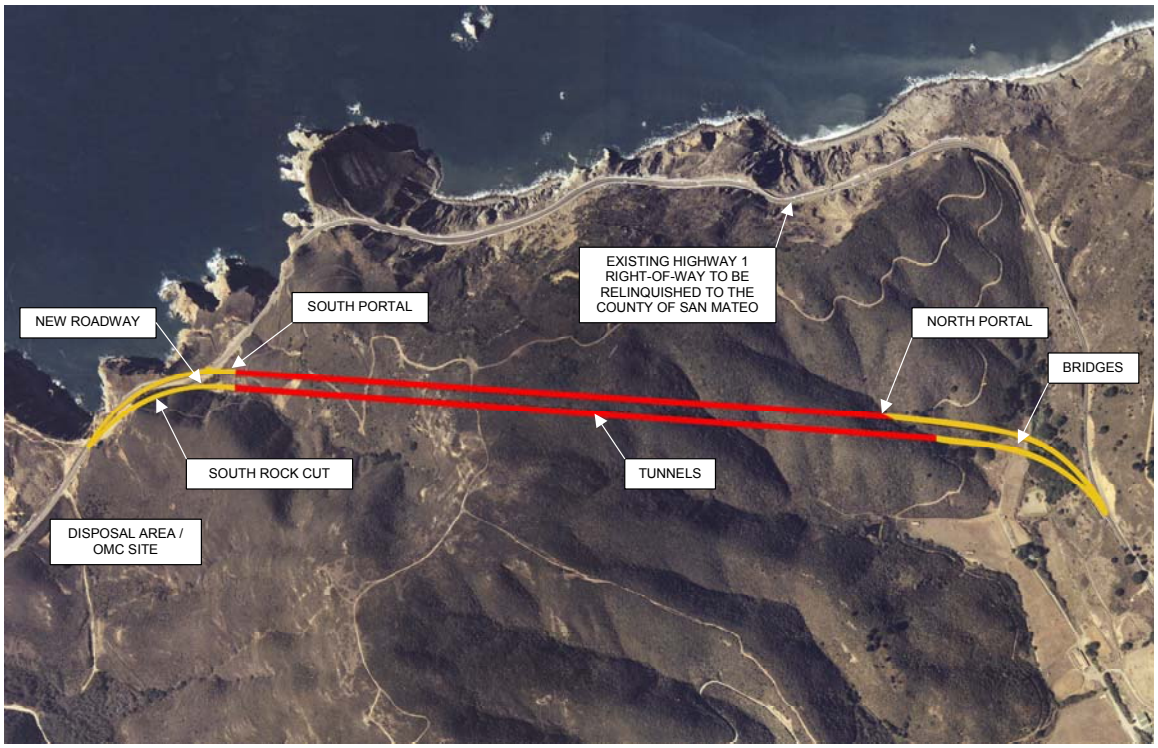
6b. Questa Portfolio

Green Valley Trail
Design and Feasibility Study - California Coastal Trail to South of Devil's Slide Tunnel

Client: California State Coastal Conservancy
Contact: Timothy Duff, Project Manager, (510) 286-3826



The State Coastal Conservancy retained Questa to identify a preferred route for a pedestrian trail linking the proposed future Devil's Slide Tunnel Trail with existing trails south of Green Valley within Montara State Beach Park in northern San Mateo County. The planned trailhead facilities, which include parking areas and a 4-foot wide recreational trail to be constructed by Caltrans, will provide an important future link in the California Coastal Trail. The work included review and analysis of site biology, topography, and geotechnical issues and constraints. The trailhead design includes provisions for automobile and emergency vehicles, as well as accommodations for pedestrian and vehicular use. Questa coordinated the final design with the Coastal Conservancy and Caltrans.



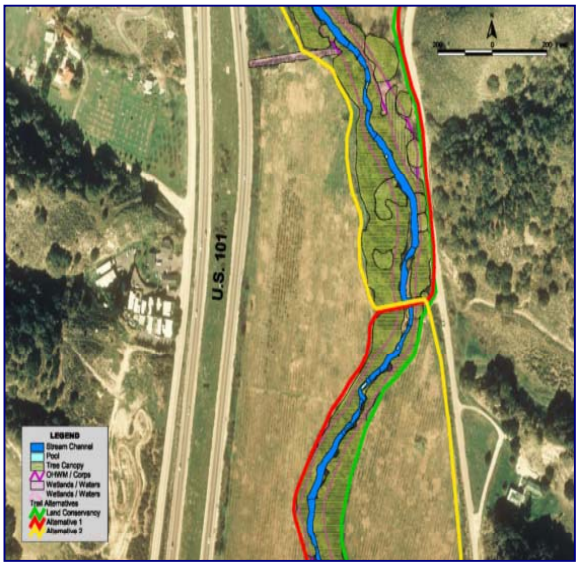
QUESTA ENGINEERING CORP

Bob Jones Multi-Use Path

Client: *County of San Luis Obispo*
Contact: *Jan Di Leo, Dept. of General Services/Parks*
(805) 781-5900

This study focused on design issues for the Bob Jones Trail, a proposed major regional trail with a construction budget estimated at $6 million. This project is part of a planned City-to-Sea route that will provide a continuous Class I recreational trail between the coast and the City of San Luis Obispo along 6 miles of SLO Creek. This report examined the physical and environmental constraints to establishing bicycle and pedestrian trails along three potential routes. The site analysis was completed using the GIS Resource Inventory Questa developed for the City and County. Alternative trail alignments, design considerations, a preliminary engineering and design cost estimate, and right-of-way acquisition needs are also addressed. Work is being coordinated with the Caltrans Local Assistance Program Engineer. Key issues included:

- Potential occurrence of sensitive environmental and cultural resources along the creek.
- Flooding, bank instability and associated safety and maintenance costs.
- Noise, safety, and security issues regarding public access.
- Determining right of way needs to safely locate a trail.
- Road and creek crossings.
- Sensitive habitat areas.
- Wetlands crossings and boardwalks.
- Preliminary bridge design (6).
- Property acquisition needs.
- Structural design considerations.



QUESTA
ENGINEERING CORP

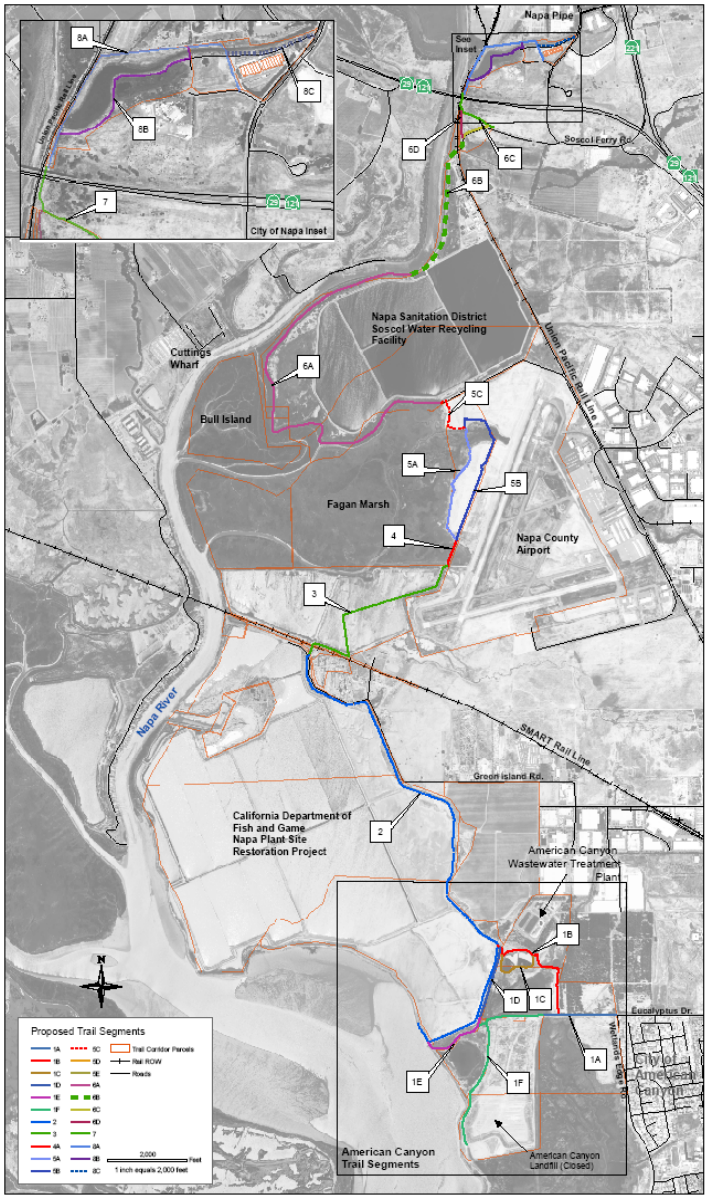
Napa River Bay Trail

Client: Napa County
Department of Conservation, Development and Planning
Contact: John Woodbury, (707) 253-4417

This feasibility and preliminary engineering study evaluates a new Bay Trail route to connect the western end of American Canyon to the City of Napa. The route is along the Napa River, associated marshlands, and significant infrastructure, such as the Napa Sanitation District, Napa County Airport, California Department of Fish and Game Ecological Preserve, and existing rail lines owned by Sonoma Marin Rail Transit (SMART) and Union Pacific Railroad (UPRR). This study evaluates a preferred alignment, as well as design, construction costs, and environmental issues for this trail segment. Study issues include:

- Review of biological issues associated with a trail near sensitive habitat;
- Setback and safety criteria associated with trails near rail lines & at-grade crossings;
- Conceptual design/cost estimate of rail undercrossing;
- Coordination with property owners, project stakeholders and other agencies;
- SMART/UPRR crossing upgrade coordination;
- Trail design, considering flooding, wildlife protection and adjacent uses;
- Design approaches compatible with railroad operations and trail user safety;
- Engineering approaches for constrained areas, including potential mitigation requirements;
- Geotechnical analysis of levee stability;
- Survey information and right of way determination;
- Cost estimates for trail construction, pavement, fencing, bridges, etc.;
- Permitting issues and permit requirements from regulatory agencies, including airport, state lands, and Public Utilities Commission.

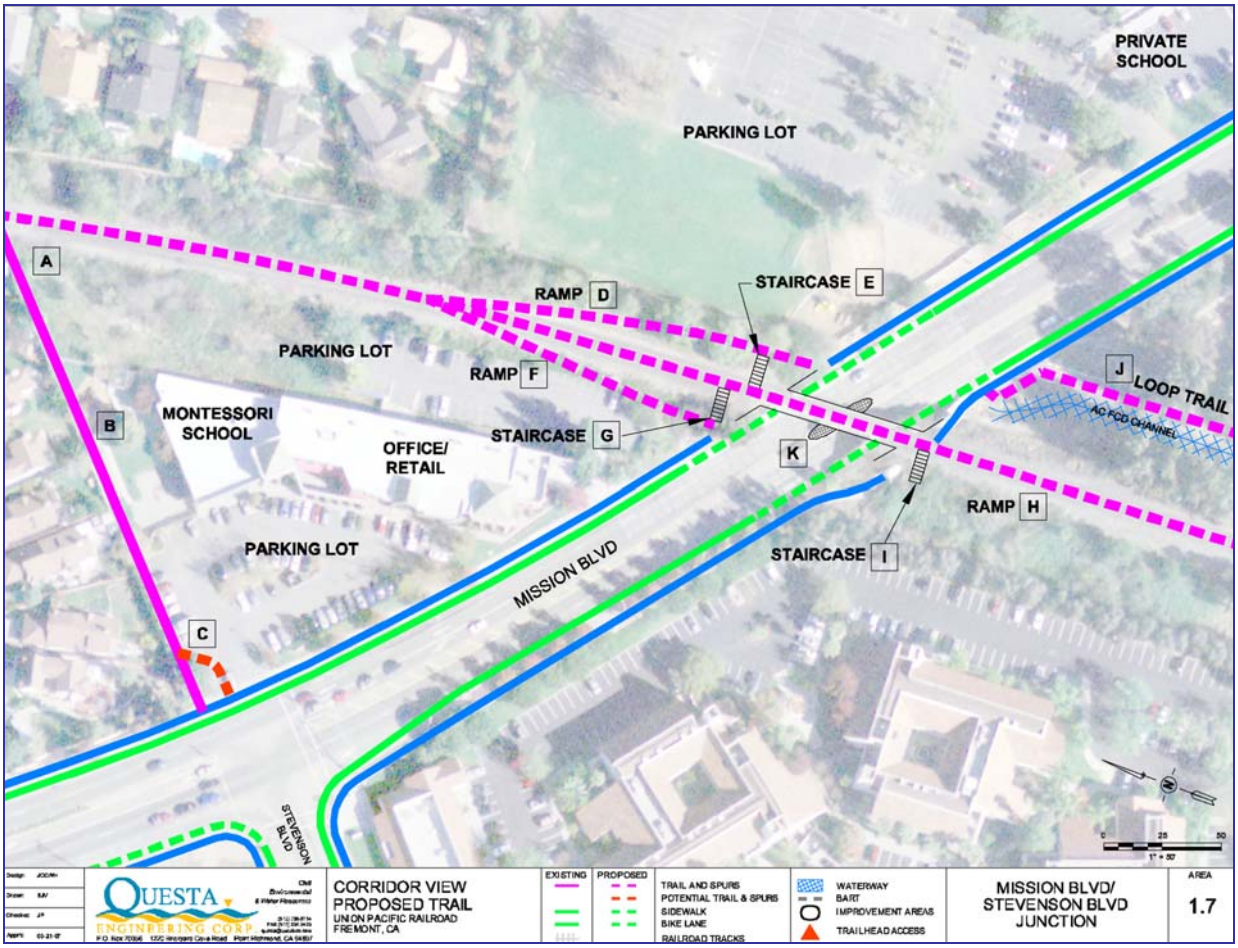
The study includes necessary project documentation to enable the identification of project issues, and incorporate needed mitigation or alternative alignment options into the trail segment.



QUESTA ENGINEERING CORP

Fremont Union Pacific Rail Trail Feasibility Study

Client: City of Fremont
Contact: Rene Dalton, Transportation Planner, (510) 494-4535



The Union Pacific Rail Trail is a proposed 9-mile trail corridor to be completed adjacent to the proposed BART Warm Springs Extension and active rail corridor. In association with Korve Transportation Engineers (now with DMJM Harris/AECOM), Questa led the study to determine a preferred alignment, project constraints, trail components, acquisition costs, as well as project phasing and funding options. Project components include sensitivities/constraints analysis, evaluation of trail feasibility, separation, and buffering, and extensive coordination and outreach with stakeholders, agencies, and neighborhood groups.

QUESTA ENGINEERING CORP

San Francisco Bay Trail Project
Gap Analysis Study

Client: *Alta Planning + Design /*
Association of Bay Area Governments (ABAG)
Contact: Laura Thompson, Bay Trail Project Manager, (510) 464-7935

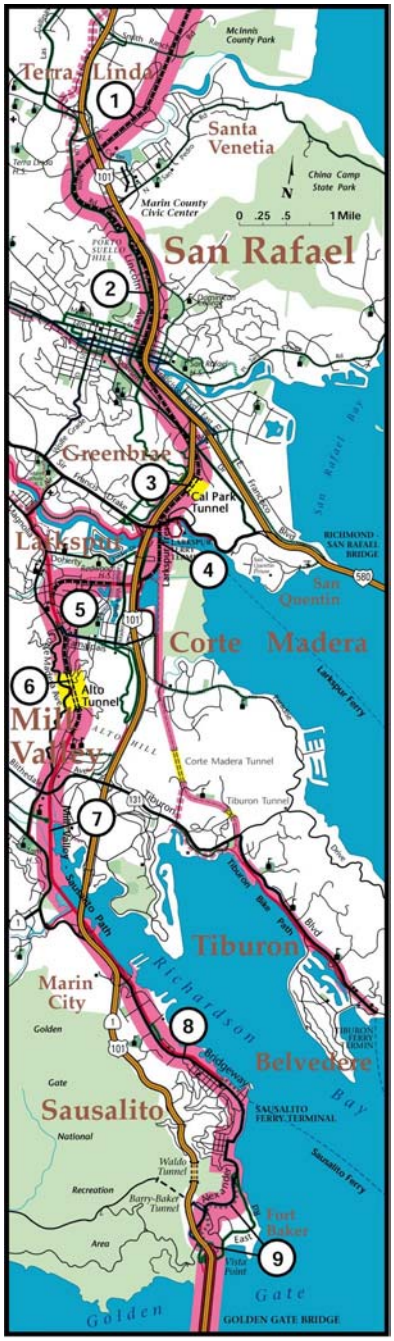
The Bay Trail Gap Analysis provides the blueprint for completion of gaps in the 500-mile Bay Trail system. The project included mapping existing Bay Trail segments, as well as identifying the specific characteristics of existing gaps in the system, determining appropriate trail components, and developing cost estimates for the identified gaps. The project also included review of existing Bay Trail Feasibility analyses to determine projected project costs, an estimate of timeframes for construction completion, identification of potential funding sources, preparation of a summary report, and developing a strategy for outreach to relevant stakeholders, including elected officials, local jurisdictions and park districts.

For bridges and boardwalks, Questa reviewed the sites, proposed plans, available soils, and other data, and developed a conceptual cost estimate for each structure.

QUESTA ENGINEERING CORP

Marin County
Nonmotorized Transportation Pilot Program

Client: Alta Planning + Design and
Marin County Public Works Department
Contact: Craig Tackabery, Asst. Dir. of Public Works, (415) 499-6528
Dan Dawson, Principal Transp. Planner, (415) 499-6287



Marin County was the recipient of a $25 million federal grant to identify, prioritize and construct model non-motorized transportation facilities to encourage alternate transportation modalities. This pilot project, to be completed by 2010, includes Class I trails, bicycle lanes, pedestrian crosswalks, grade separation projects, and education and outreach programs.

Questa's role in this project was to assist with short-listing "constructable" projects from a lengthy list of possible trails, based on a number of feasibility issues, and the identification, prioritization, and estimation of project costs and streamlined implementation scheduling. Working with project lead consultant Alta Planning + Design and Transportation Engineer David Parisi, approximately 25 projects have been identified for inclusion in TIP improvements and implementation.

The project included a significant public participation and outreach component, as well as coordination with regulatory agencies and project stakeholders. The project is currently proceeding.

Marin NTPP — February 2007

Exhibit A
Project Implementation Schedule
Infrastructure Improvements

Project Phase	January 2007	April 2007	July 2007	October 2007	January 2008	April 2008	July 2008	October 2008	January 2008	April 2009	July 2009	October 2009	January 2010
Preliminary Engineering													Project Completion
Environmental Compliance													
Resource Agency Permits													
Right of Way Acquisition													
PS&E (Plans, Specifications and Estimates)													
Construction													
Transportation Improvement Program (TIP) Amendments (http://www.mtc.ca.gov/funding/tip/)													
Caltrans Local Assistance Authorization to Proceed and Payment Requests (http://www.dot.ca.gov/hq/LocalPrograms/)													

Simple Projects (Striping, Signs, Bicycle Lockers, Kiosks, Shelters…)

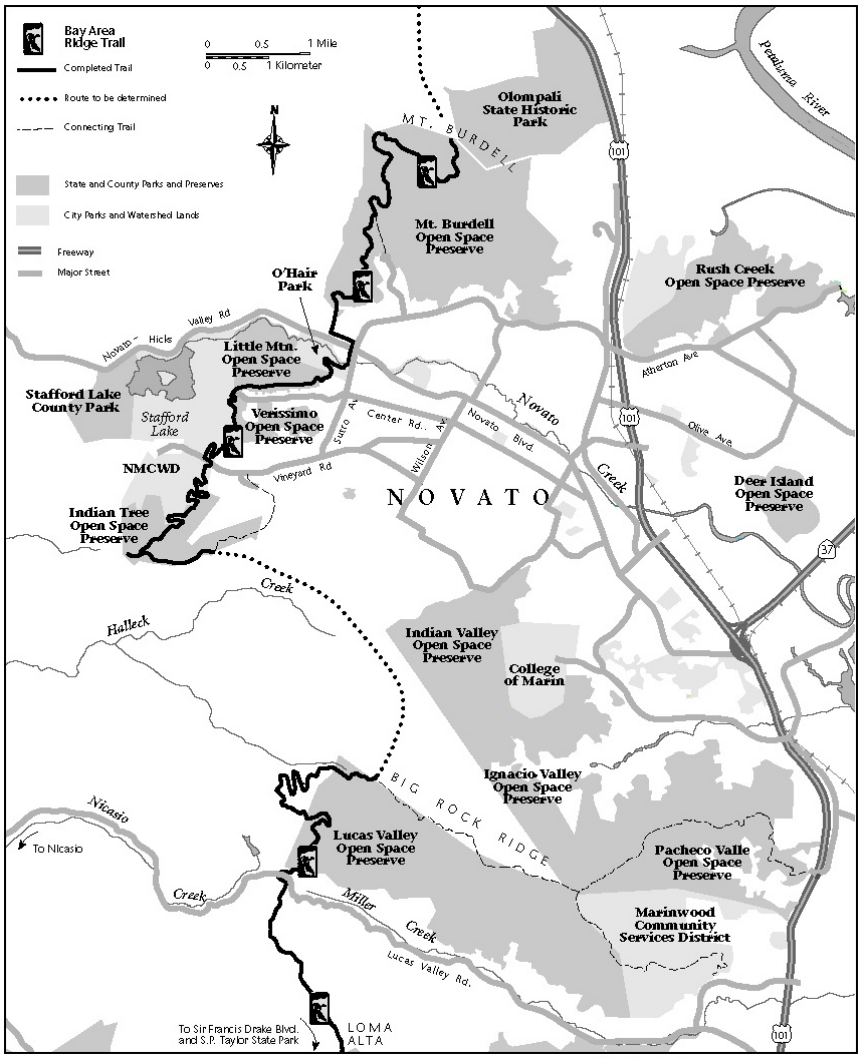
Complex Projects (Road Widening, Intersection Improvements, New Class I Trail, Bridges…)

QUESTA ENGINEERING CORP.

Novato Master Trails Plan

Client: City of Novato
Parks, Recreation, and Community Services Department
Contact: Pam Shinault, (415) 899-8200

This project is a community-wide trails plan for the City of Novato. Tasks include determination of gaps in existing trail system, identifying new alignments, connections and trailheads, implementation options, phasing, conceptual design sections, and funding opportunities. The project includes facilitating meetings and working with a thirteen member Citizen's Advisory Committee under direction of the City of Novato Parks, Recreation, and Community Services Department. The trail inventory and analysis were completed in a project GIS.



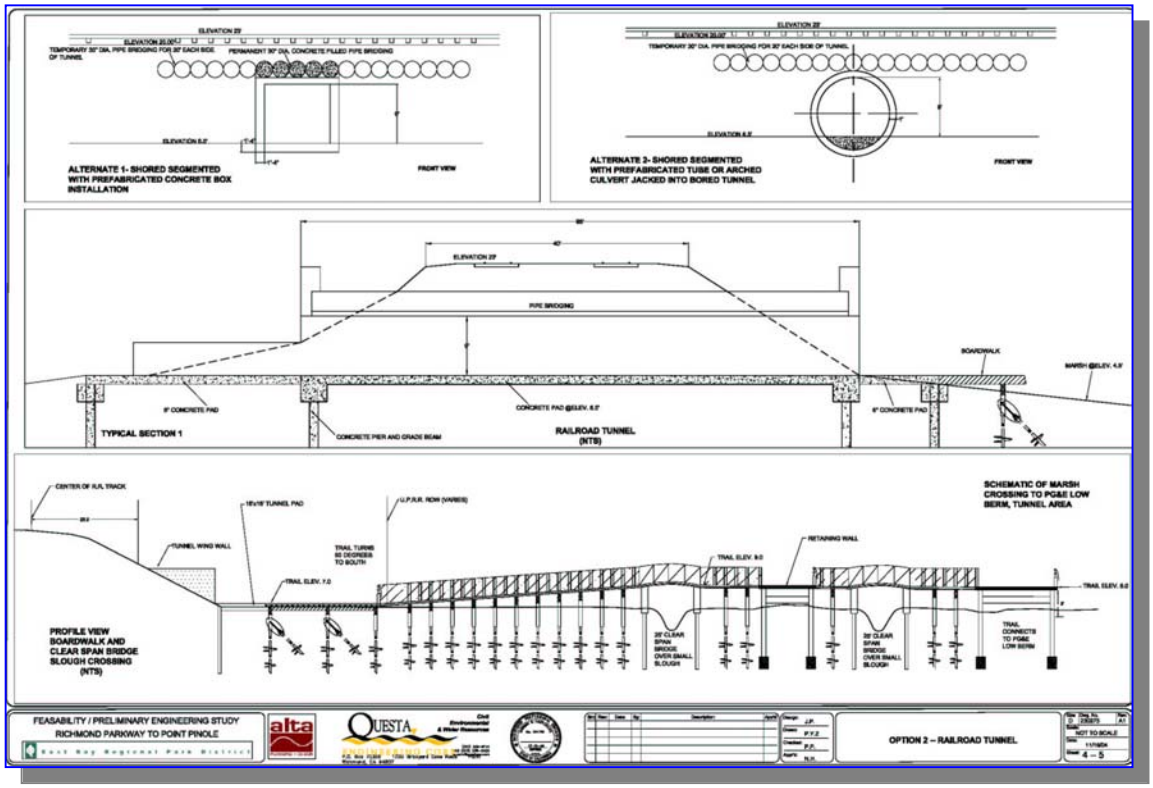
Map by Ben Pease, www.peasepress.com

QUESTA ENGINEERING CORP.

Feasibility/Preliminary Engineering Study, San Francisco Bay Trail - Richmond Parkway to Point Pinole Regional Shoreline

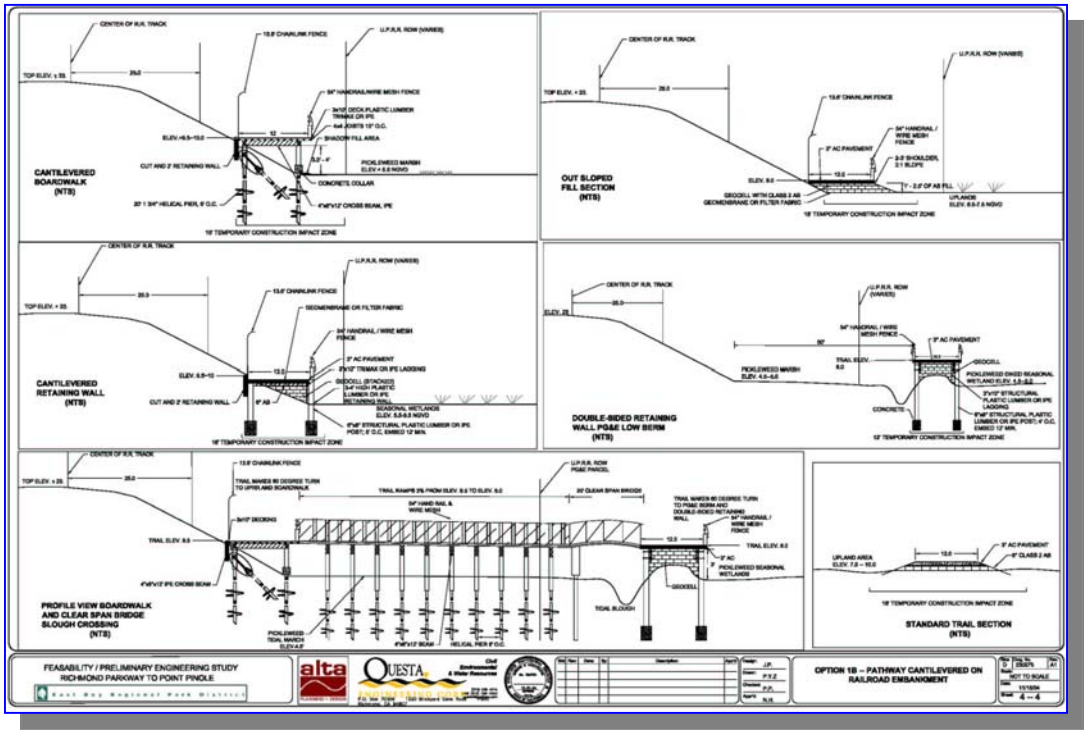
Client: *East Bay Regional Parks District*
Oakland, California
Contact: *Jamie Perkins, (510) 635-0135*

Questa, in conjunction with Alta Planning + Design and Oakley & Oakley, has recently completed a feasibility and preliminary engineering study for a new Bay Trail route connecting the Point Pinole Regional Shoreline with the Richmond Parkway. The project team also included Dr. Sam McGinnis and Jane Valerius, who provided consultation on wetlands and endangered species issues. A significant portion of one trail alternative is located along the eastern edge of Giant Marsh (a large tidal marsh), and has a number of endangered species issues, including the salt marsh harvest mouse and California clapper rail.



QUESTA ENGINEERING CORP

The trail connections evaluated would utilize East Bay Regional Park District lands, a portion of the Union Pacific Railroad (UPRR), PG&E lands, and existing public right-of-ways to connect existing Bay Trail segments. Coordination with regulatory agencies and UPRR was an important part of the Scope of Work.



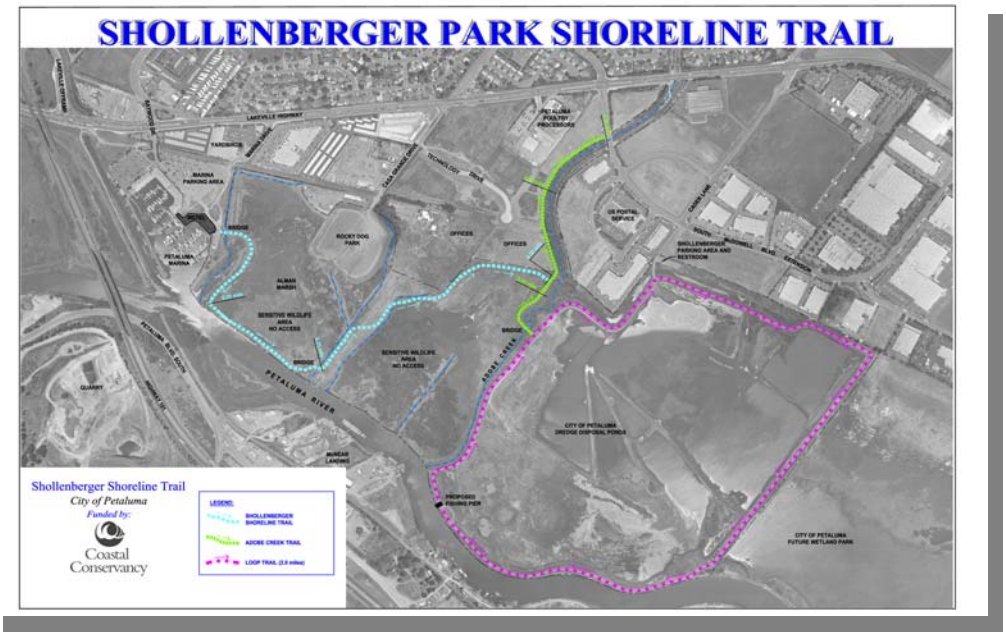
The study:

- Determined the preferred alignment, infrastructure, and improvements necessary to accommodate this section of the Bay Trail.
- Developed preliminary engineering plans and cost estimates for alternatives that included wetland boardwalks, boardwalks cantilevered on the railroad levees, and clear span bridge crossings of tidal sloughs.
- Resolved possible management and use conflicts between neighboring land uses, sensitive wildlife habitat, and trail users.
- Examined a possible UPRR tunnel or under-crossing feasibility/design.
- Explored opportunities for education/interpretation along the trail.
- Identified wetlands and endangered species impacts and developed mitigation requirements and concepts.

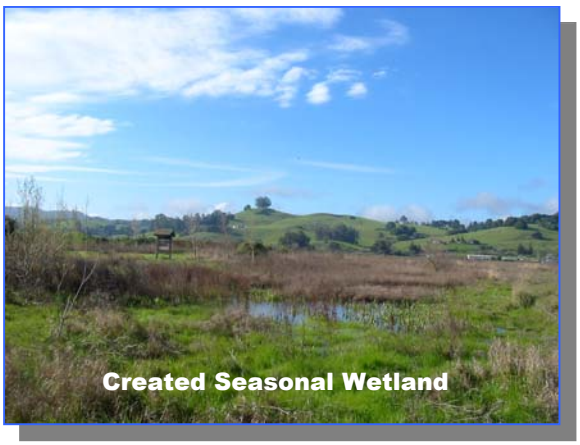
Shollenberger Wetlands Park / Adobe Creek Enhancement and Trail Design, Phases I, II, & III

Client: City of Petaluma Parks and Recreation Department
Contact: Mr. Jim Carr, Parks Department Director (707) 778-4380

Questa Engineering Corporation completed the California Coastal Conservancy-funded Petaluma Marsh Enhancement Plan in 1992, which provided the conceptual framework for a number of public access trail facilities and creek and marsh enhancement projects along the Petaluma River in south Petaluma. After working closely with City staff to secure grant funding, Questa has been involved with the follow-up planning, permitting, final design, construction and post project monitoring for three phases of park improvements that have been completed since 1997. All work



included design, preparation of bid documents and specifications in Caltrans format, construction observation, post-construction monitoring, and permitting. Extensive project coordination, community meetings, and agency permitting included consultation with U.S. Army Corps of Engineers, California Department of Fish and Game, U.S. Fish and Wildlife Service, S.F. Bay Conservation and Development Commission, State Lands Commission, and other agencies.


Created Seasonal Wetland

The first project was the enhancement of lower Adobe Creek (tidal section) and the construction of a public access pathway around almost 2 miles of the City's dredge disposal ponds. Improvements included earthwork for channel reconstruction, planting terrace and trail system, trail surfacing, bollard and cable fencing, interpretive elements, and landscaping and irrigation system.

QUESTA ENGINEERING CORP

Shollenberger Wetlands Park / Adobe Creek Enhancement and Trail Design, Phases I, II, & III

Phase II focused on the enhancement of a 0.7 mile riparian section of Adobe Creek, including raising and setting back levees, and construction of a levee top public access pathway trail improvements. The project also included design and installation of a sediment detention basin, low flow channel, site improvements, and installation of a prefabricated 70-foot steel bridge, for which we completed foundation design and construction observation.

Hand-Built Fiberglass Bridge

Phase III was completed in October 2002, with a one-mile section of trail, boardwalk and two pedestrian bridges built. In some areas with limited site access, portions of the trail were constructed by hand labor along the Petaluma River by California Conservation Corps crew, with materials delivered by barge. Topography for this area was not available electronically, so the trail site plan was done on mylar, with field staking of the final route by Questa staff prior to construction. Due to the proximity of the site to endangered species habitat, extremely close supervision of work crews by Questa staff has been a key component of project implementation. The trail section along the river and on old levees in wet areas were constructed with a wood header board and geocell, backfilled with quarry fines to obtain the correct elevation above tidal flooding, while minimizing the footprint of the trail itself within sensitive habitat.

Elevated Geogrid Trail

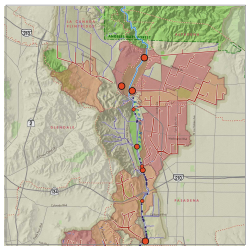
QUESTA ENGINEERING CORP

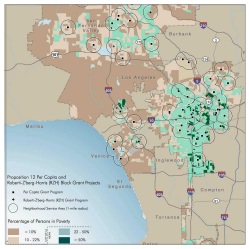
6c. GreenInfo Network Portfolio

About GreenInfo Network

Information and Mapping in the Public Interest

The mission of GreenInfo Network is to bring the power of mapping and information technologies to non-profits, governmental agencies and other public interest organizations, enabling them to more effectively understand and communicate the relationships between issues, people and places.





GreenInfo Network was founded in 1996 to support public interest groups seeking to use computer mapping and related technology. It is a non-profit, tax-exempt organization, and works in California and throughout the United States.

CLIENTS: GreenInfo Network works exclusively with public interest groups, including non-profits and governmental agencies. The following are just some of our almost 300 current and past clients:

Association of Bay Area Governments
Bay Area Open Space Council
Center for Law in the Public Interest/The City Project
California Coastal Conservancy
Great Valley Center
Greenbelt Alliance
Latino Issues Forum
Policy Analysis for California Education (PACE)
Resources Legacy Fund Foundation
Sierra Business Council
The California Council of Land Trusts
The Ocean Conservancy
Transportation and Land Use Coalition
United Way of the Bay Area

SERVICES: GreenInfo Network has a wide range of capacities for creating, analyzing and communicating geographic information, including:

- Conservation planning for land acquisition
- General environmental analysis and mapping
- Demographic analysis and mapping
- Regional and local land use planning
- Member/supporter targeting and analysis
- GIS needs assessments, set-up and training
- Internet mapping systems
- Database application development
- Map and cartographic design
- Digitzing and acquisition of GIS data
- Graphic design and production
- Geographic model building and analysis

TECHNOLOGY: GreenInfo Network relies primarily on ESRI ArcGIS, ARC/INFO, ArcView and related products running on PC workstations, but also maintains a wide range of other software tools for creating, analyzing and communicating geographic data. For printing, GreenInfo Network uses HP DesignJet plotters and Xerox Phaser high speed color laser printers. GIS data sets are maintained on a wide range of subjects, from natural resource factors to demographics, and are supplemented with client-specific information as needed.

STAFF:

Larry Orman, Executive Director
Tom Albo, Associated Director
Ryan Branciforte, GIS Specialist
Maegan Leslie Torres, GIS Specialist
Jennifer Strahan, GIS Specialist

Southern California Office:
Aubrey Dugger, Associate Director
Nick Maricich, GIS Specialist
Amanda Recinos, GIS Specialist

Main office: 116 New Montgomery Suite 738 San Francisco CA 94105 415-979-0343 www.greeninfo.org
Southern California office: 3578 Eastham Drive, Suite C Culver City CA 90232 310-558-3660

GreenInfo Network Clients (partial, as of November 2006)

American Institutes of Research
American Land Conservancy
Association of Bay Area Governments
Audubon California
Bay Area Open Space Council
Bay Area Ridge Trail Council
Bay Nature Magazine
Big Sur Land Trust
Brookside Community Health Center
California Child Care Resource and Referral Network
California Coastal Conservancy
California Council of Land Trusts
California Endowment
California Food Policy Advocates
California Wilderness Coalition
California Rangeland Trust
Center for Law in the Public Interest/The City Project
Chinese American Voter Education Committee
Clinica Romero
Community Conservancy International
Conservation Biology Institute
Conservation Fund
Conserving California Landscapes/Packard Foundation
Consumers Union
CUESA - Center for Urban Education on Sustainable Agriculture
Cummings Foundation
Defenders of Wildlife
East Bay Community Foundation
East Bay Housing Organization (EBHO)
Elkhorn Slough Foundation
Environment Now
Environmental Defense
Environmental Working Group
Forest Guardians
Friends of Harbors, Beaches and Parks
Golden Gate National Parks Conservancy
Great Valley Center
Greenbelt Alliance
Hewlett Foundation
Kaweah Land Trust
Land Trust Alliance
Latino Issues Forum
League to Save Lake Tahoe
Los Angeles Alliance for a New Economy (LAANE)
Marin Baylands
Midpeninsula Regional Open Space District (MROSD)
Mill Valley Stream Keepers
Monterey County Agricultural & Historical Land Conservancy
Muir Heritage Land Trust
Napa Land Trust
National Audubon Society
National Forest Foundation
Natural Heritage Institute
Natural Res. Defense Council
Nevada County Land Trust
Northern California Council for the Community (NCCC)
Pacific Forest Trust
Palos Verdes Peninsula Land Conservancy
Peninsula Open Space Trust (POST)
Pesticide Action Network
Planning & Conservation League
Policy Analysis for California Education (PACE)
Public Health Institute/Public Health Trust
Resources Law Group
San Francisco Bay Joint Venture
San Francisco Foundation
San Francisco Planning and Urban Research Association (SPUR)
San Joaquin River Parkway Conservation Trust
Santa Clara County Land Trust
Santa Clara County Open Space Authority
Save-the-Redwoods League
Save the Bay
Sierra Business Council
Sierra Club
Sierra Fund
Sierra Nevada Alliance
SierraWatch
Solano County Farmland and Open Space Foundation
Strategic Economics
Sustainable Conservation
SYRCL - South Yuba River Citizens League
The Bay Institute
The Nature Conservancy
The Ocean Conservancy
The Wilderness Society
Transportation and Land Use Coalition
Tri-Valley Conservancy
Truckee-Donner Land Trust
Trust for Public Land
Tuolumne River Pres. Trust
Urban Wildlands Group
United Way of the Bay Area
WildSpaces
Yosemite Restoration Trust

Main office: 116 New Montgomery Suite 738 San Francisco CA 94105 415-979-0343 www.greeninfo.org
Southern California office: 3578 Eastham Drive, Suite C Culver City CA 90232 310-558-3660

GreenInfo Network

Information and Mapping in the Public Interest

GreenInfo Network Services

Mapping Services

When You Need To . . .

- Better understand the geographic area within which you work, by knowing what and who is around you
- Visualize critical information about your organization and its programs and issues
- Communicate your aims to just a few people or to thousands, in print or electronically
- Integrate issue or organizational maps into a web site
- Provide maps as part of a funding proposal, a report to donors or other communications

We Can Help

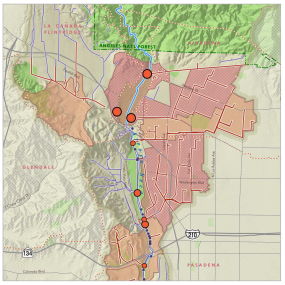
GreenInfo Network works with non-profits and government agencies on a wide range of mapping projects. From very small areas to entire states and beyond, we specialize in making our maps communicate your findings and goals. We're known for exceptional design and cartography, as well as thorough technical understanding of data and analysis used to generate maps.

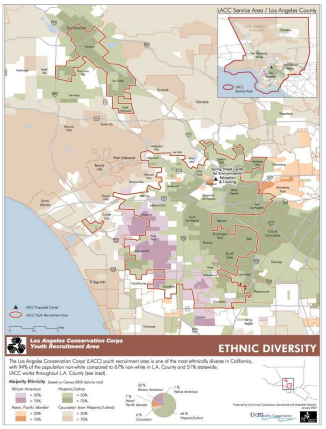
What We Can Do

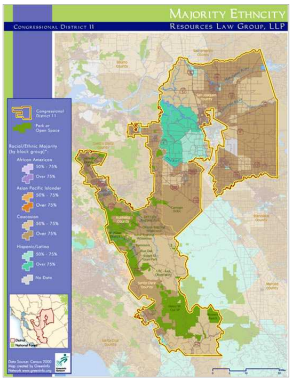
- Develop geographic analysis that informs your strategies and programs
- Shape strategic communications plans so that your maps reflect your brand and your intent
- Create outstanding maps at any size, from page to large poster, and in any digital format
- Produce final products, booklets and other materials
- Convert your GIS-based maps into formats compatible with offset printing requirements

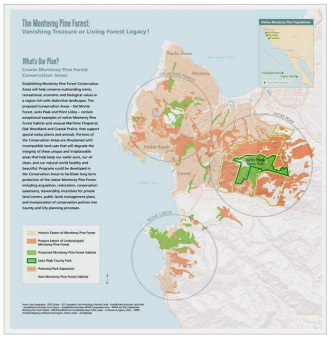
Our Mapping Skills

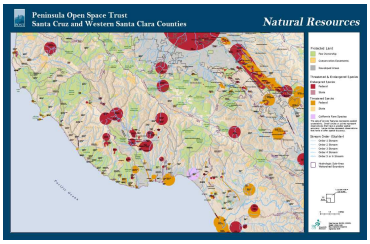
- Full suite of ESRI ArcGIS tools expertly applied
- Data analysis and assessment, including GIS-based tools and database application design
- Skilled communications consulting that ensures your needs are fully met
- Outstanding cartography and frame design, using GIS and illustration software
- Design of collateral materials (PowerPoint presentations, flyers, etc.)
- Production of high quality plots and prints, including lamination and other finishing options

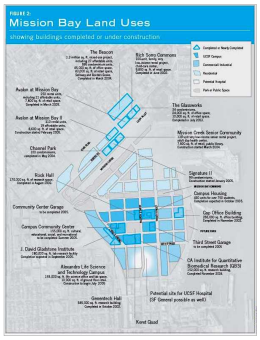












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Phone: (310) 558-3660 Fax: (310)558-3664

www.greeninfo.org gin@greeninfo.org

Trail Planning & Management Portfolio

GreenInfo Network

116 New Montgomery Suite 738, San Francisco CA 94105
PH: 415-979-0343
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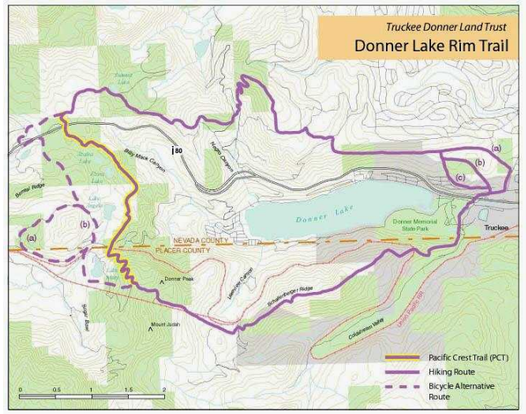
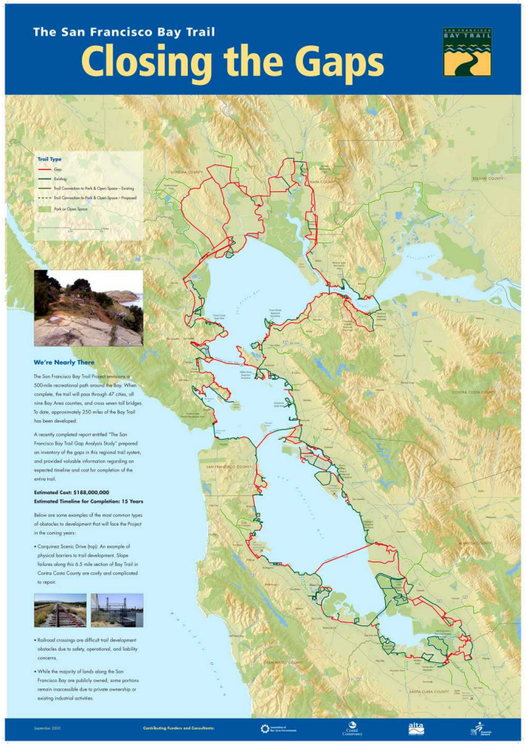
PH: 310-558-3660
www.greeninfo.org gin@greeninfo.org

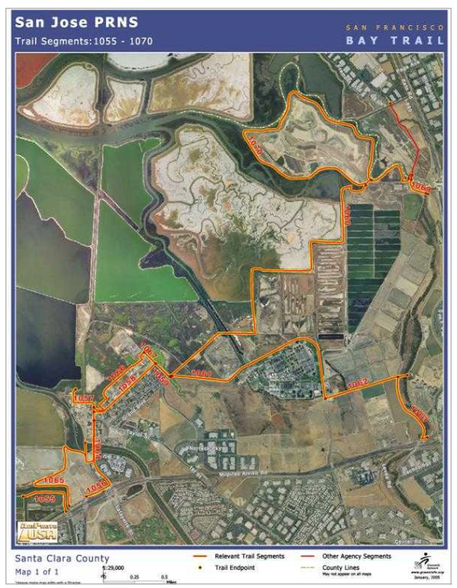
Trails are the linkages between people and nature. Whether along an urban path or in a deep wilderness, trails are routes to discovery. GreenInfo Network has extensive experience in providing GIS services for trail planning by non-profits and public agencies, including development of simple as well as sophisticated databases and tracking systems, preparation of display maps and atlases, publication of online mapping applications and more.

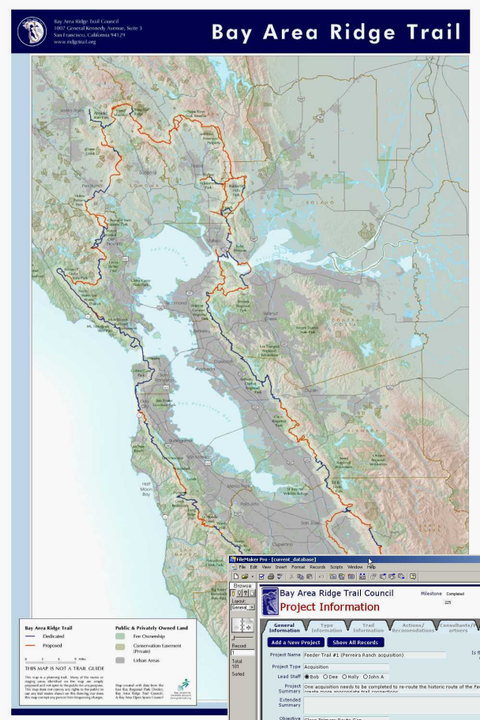


Display Maps: Whether for a land trust developing public input on trail options or to enable people from all over a metropolitan region to get transit access to major trail systems, GreenInfo Network brings care and skill to its mapping products.

ABAG Bay Trail: GreenInfo created a data management system that included an online survey of scores of agencies coupled with a detailed atlas of their responses (and a major display poster) for the "Closing the Gaps" project.





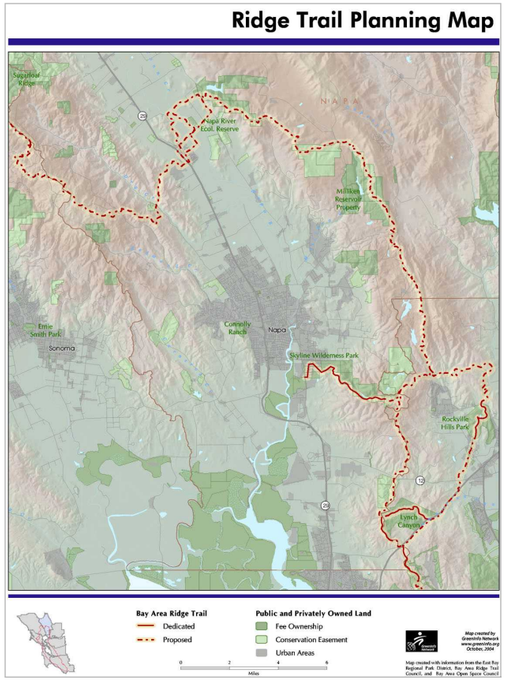


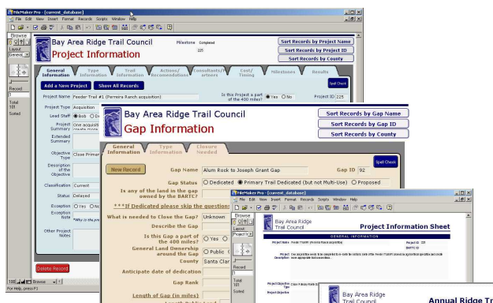
Support for Trail Planning: GreenInfo creates mapping strategies that enable groups to assess and make decisions about trail placement and maintenance

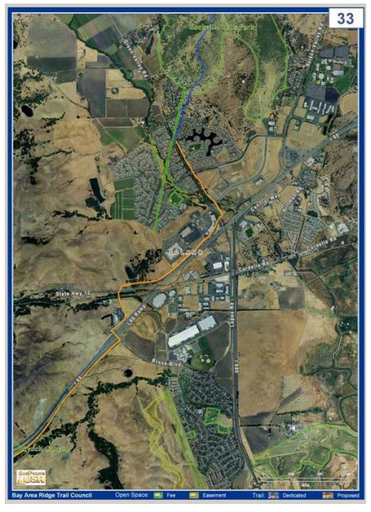
Trail Systems: Building robust databases for project management linked to GIS-based map frameworks is critical to efficient planning and development of trail networks.

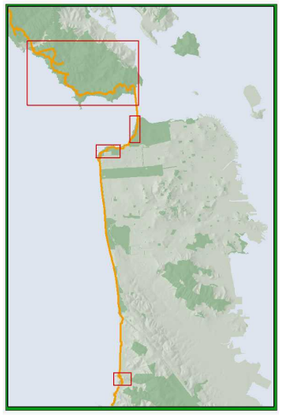
Bay Area Ridge Trail Council: Creating a huge regional trail loop around the Bay Area is a long term project. GreenInfo Network is the mapping and data management partner for the Ridge Trail Council. We have created a comprehensive mapping system that includes linkages to a detailed project management database, enabling the Council staff to know the status of any segment of trail and of their own efforts to secure it for public use.

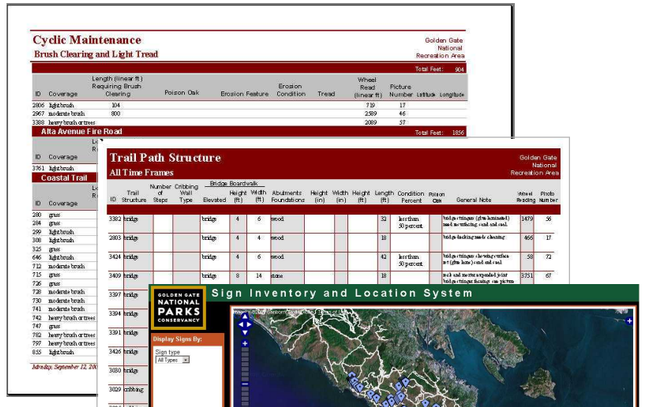
GreenInfo has also developed parcel-level atlases of all lands within the Ridge Trail planning corridor that allow Council staff to go into the field with highly detailed maps and identify problems and opportunities for subsequent action.

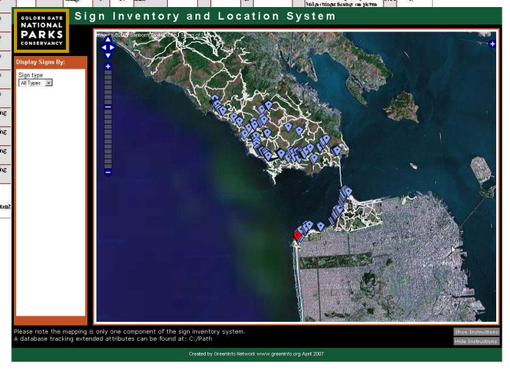


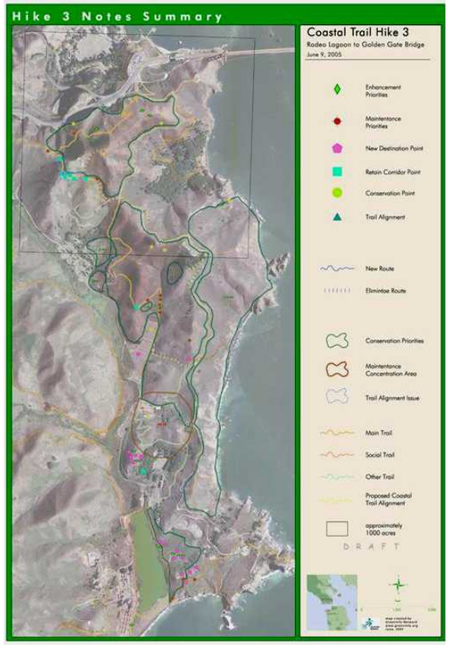












Collaborative Planning for Trails: GreenInfo Network provided GIS and strategic mapping support for development of a multi-agency plan for improving the Coastal Trail in the Golden Gate National Recreation Area. Trail maps and atlases assisted field surveys, while data maps and overlays enabled experts to reach agreement on priorities.

Following the trail assessment, GreenInfo Network developed trail maintenance databases for the Golden Gate National Parks Conservancy, including a system for managing signs in the park and using online mapping technology to provide detailed scenes of the sign data.

GreenInfo Network

Information and Mapping in the Public Interest

Protected Lands Data for California

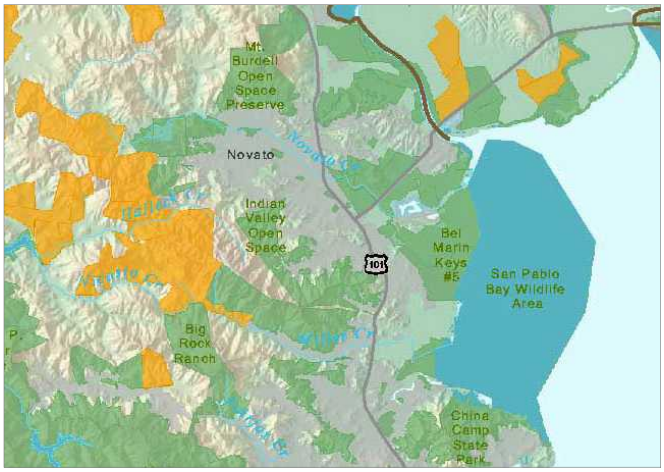
The Protected Lands Database is a major revision of older GIS datasets inventorying protected lands in California. It is being developed by major regions, with current data for the Bay Area, Southern California, the Southern Central Valley and the Central Coast. Inventories of other regions of the state are in development.

The full GIS database includes lands held in fee and those held through easements (mostly by non-profit land trusts) – not all of that data may be publicly available, however. All data is provided "as is".

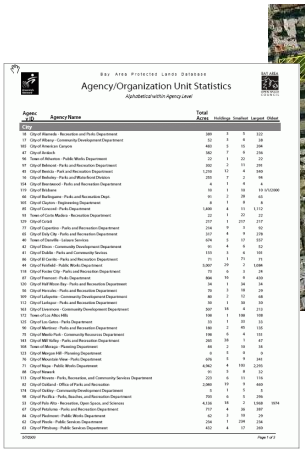
The public release version of the database is distributed without charge for public and non-profit purposes. Fees may apply to users applying it to commercial purposes.

This updating process is being undertaken with special one-time funding. Funds do not yet exist to update the database on a regular basis – GreenInfo Network welcomes interest in maintaining this data from agencies, organizations and other potential partners.

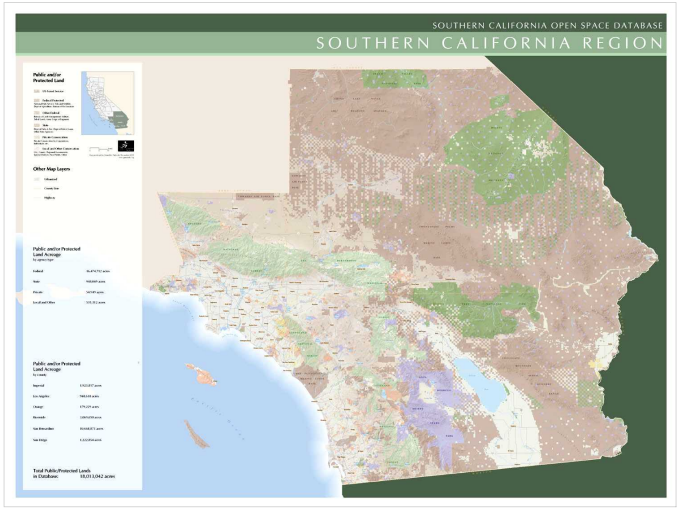
For more information: openspace@greeninfo.org



Fee, easement and submerged lands are all included in the data


Agency/Organization Unit Statistics

Parks data are highly accurate and registered to parcels where available as well as air photos. Special reports can tabulate acreage by many factors.



What's In the Data Set:

- Thousands of protected parcels grouped into commonly-named units (e.g., Big Trees State Park) totaling in the million of acres, with regional subsets (Southern Calif., Bay Area, etc.), accurate to official parcel lines in most areas
- Attributes indicating: owning agency name, ownership type (fee/easement), public access status (open, restricted, none) and agency level (federal, state, city, county, special district, non-profit), and water/land status
- Information on easements held by land trusts (subject to limitations on use)
- ESRI Geodatabase and shape file formats
- Google Earth KMZ files will be available

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GreenInfo Network

Information and Mapping in the Public Interest

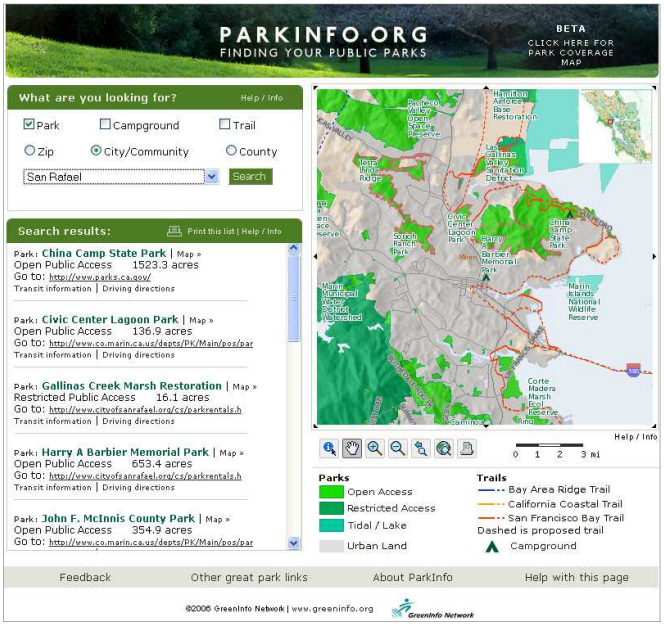
ParkInfo – Protected Lands Mapping Portal for Public Interest Groups and Agencies

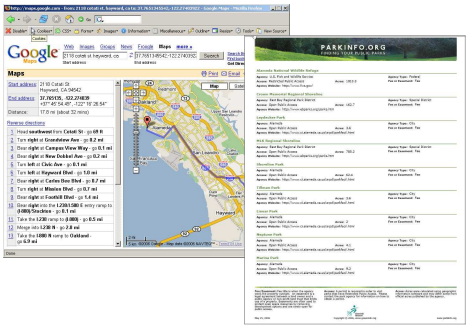
ParkInfo.org is a collaborative project to provide one-stop access to all protected parks and open space in California. With data now available for the many parts of the state, ParkInfo.org allows users to choose parks of interest, go to owning agency web sites for more details, get detailed driving and transit directions, and print maps and reports.

Users can search for parks by zip code, county, city, or by proximity to their home address – or by panning and zooming on the interactive web map. Parks are shown by their public access status. For the Bay Area, regional trails and public campground data is also available.

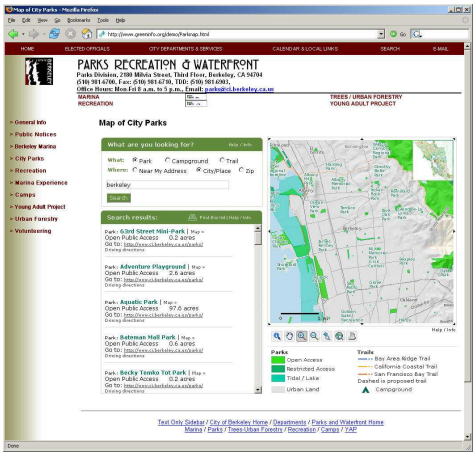
This project is closely tied to efforts to improve California's data on protected lands. As improved data is developed for each region of the state, it will be included on the ParkInfo site. Contact GreenInfo Network for more information.

ParkInfo has been created by GreenInfo Network, in partnership with Bay Area Open Space Council, the California Council of Land Trusts, the Southern California Open Space Council, Great Valley Center and UC Davis ICE, California Coastal Conservancy, the Resources Legacy Fund/Preserving Wild California, and others.





ParkInfo can generate reports and maps of selected parks – as well as driving and transit directions



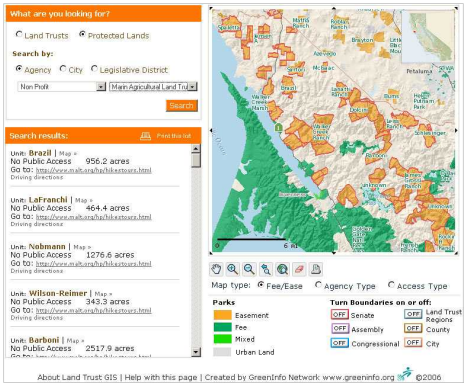
Demonstration of how ParkInfo can be embedded into another web site

We can put ParkInfo into <u>your</u> web site -- ask us how!

GreenInfo Network can create a customized version of ParkInfo for your public agency, land trust or other organization's web site.

We create a "portal" in your web site to our ParkInfo databank and interface – a simple process for most sites. We then set the selected data to the area of your focus (a city, a county, etc.). If you need special designs or additional layers of data we can meet those needs as well.

Contact us at: *parkinfo@greeninfo.org*



Land trust implementation of ParkInfo portal

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7. **Certification of Consultant (Exhibit 6)**
   Nonlobbying Certification (Exhibit 8)
   Lobbying Disclosure (Exhibit 9)

Exhibit 6

Certification of Consultant, Commissions & Fees

CERTIFICATION OF CONSULTANT

I HEREBY CERTIFY that I am the Principal, and duly authorized representative of the firm of Questa Engineering Corporation, whose address is 1220 Brickyard Cove Road, Suite 206, Pt. Richmond, CA 94801, and that, except as hereby expressly stated, neither I nor the above firm that I represent have:

(a) employed or retained for a commission, percentage, brokerage, contingent fee, or other consideration, any firm or person (other than a bona fide employee working solely for me or the above consultant) to solicit or secure this agreement; nor

(b) agreed, as an express or implied condition for obtaining this contract, to employ or retain the services of any firm or person in connection with carrying out the agreement; nor

(c) paid, or agreed to pay, to any firm, organization or person (other than a bona fide employee working solely for me or the above consultant) any fee, contribution, donation, or consideration of any kind, foror in connection with, procuring or carrying out this agreement.

I acknowledge that this Certificate is to be made available to the California Department of Transportation (Caltrans) in connection with this agreement involving participation of Federal-aid Highway funds, and is subject to applicable state and federal laws, both criminal and civil.

5/31/07
(Date)

Jeffrey Peter
(Signature)

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Exhibit 8

NONLOBBYING CERTIFICATION FOR FEDERAL-AID CONTRACTS

The prospective participant certifies by signing and submitting this bid or proposal to the best of his or her knowledge and belief that:

(l) No federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any federal contract, the making of any federal grant, the making of any federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure of Lobbying Activities," in accordance with its instructions.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

The prospective participant also agrees by submitting his or her bid or proposal that he or she shall require that the language of this certification be included in all lower-tier subcontracts, which exceed $100,000 and that all such subrecipients shall certify and disclose accordingly.

Jeffrey H. Peters

Signature of Authorized Representative

5/31/07

Date

Jeffrey H. Peters, Principal

Typed Name and Title of Authorized Representative

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Exhbit 9

NA
JH Pitts
5/31/07

DISCLOSURE OF LOBBYING ACTIVITIES

COMPLETE THIS FORM TO DISCLOSE LOBBYING ACTIVITIES PURSUANT TO 31 U.S.C. 1352

1. Type of Federal Action:

☐ a. contract
b. grant
c. cooperative agreement
d. loan
e. loan guarantee
f. loan insurance

2. Status of Federal Action:

☐ a. bid/offer/application
b. initial award
c. post-award

3. Report Type:

☐ a. initial
b. material change

For Material Change Only:
year_____ quarter_____
date of last report _____

4. Name and Address of Reporting Entity

☐ Prime ☐ Subawardee
Tier _____, if known

Congressional District, if known

5. If Reporting Entity in No. 4 is Subawardee, Enter Name and Address of Prime:

Congressional District, if known

6. Federal Department/Agency:

7. Federal Program Name/Description:

CFDA Number, if applicable_____

8. Federal Action Number, if known:

9. Award Amount, if known:

10. a. Name and Address of Lobby Entity
(If individual, last name, first name, MI)

b. Individuals Performing Services (including address if different from No. 10a)
(last name, first name, MI)

(attach Continuation Sheet(s) if necessary)

11. Amount of Payment (check all that apply)

$ _____ ☐ actual ☐ planned

12. Form of Payment (check all that apply):

☐ a. cash
☐ b. in-kind; specify: nature_____
value _____

13. Type of Payment (check all that apply)

☐ a. retainer
☐ b. one-time fee
☐ c. commission
☐ d. contingent fee
☐ e deferred
☐ f. other, specify _____

14. Brief Description of Services Performed or to be performed and Date(s) of Service, including officer(s), employee(s), or member(s) contacted, for Payment Indicated in Item 11:

(attach Continuation Sheet(s) if necessary)

15. Continuation Sheet(s) attached: **Yes** ☐ **No** ☐

16. Information requested through this form is authorized by Title 31 U.S.C. Section 1352. This disclosure of lobbying reliance was placed by the tier above when his transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to Congress semiannually and will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

Signature: _____

Print Name: _____

Title: _____

Telephone No.: _____ Date: _____

Authorized for Local Reproduction

Standard Form - LLL

Federal Use Only:

Standard Form LLL Rev. 04-28-06

Exhbit 9

INSTRUCTIONS FOR COMPLETION OF SF-LLL, DISCLOSURE OF LOBBYING ACTIVITIES

This disclosure form shall be completed by the reporting entity, whether subawardee or prime federal recipient at the initiation or receipt of covered federal action or a material change to previous filing pursuant to title 31 U.S.C. Section 1352. The filing of a form is required for such payment or agreement to make payment to lobbying entity for influencing or attempting to influence an officer or employee of any agency, a Member of Congress an officer or employee of Congress or an employee of a Member of Congress in connection with a covered federal action. Attach a continuation sheet for additional information if the space on the form is inadequate. Complete all items that apply for both the initial filing and material change report. Refer to the implementing guidance published by the Office of Management and Budget for additional information.

1. Identify the type of covered federal action for which lobbying activity is and/or has been secured to influence, the outcome of a covered federal action.
2. Identify the status of the covered federal action.
3. Identify the appropriate classification of this report. If this is a follow-up report caused by a material change to the information previously reported, enter the year and quarter in which the change occurred. Enter the date of the last, previously submitted report by this reporting entity for this covered federal action.
4. Enter the full name, address, city, state and zip code of the reporting entity. Include Congressional District if known. Check the appropriate classification of the reporting entity that designates if it is or expects to be a prime or subaward recipient. Identify the tier of the subawardee, e.g., the first subawardee of the prime is the first tier. Subawards include but are not limited to subcontracts, subgrants and contract awards under grants.
5. If the organization filing the report in Item 4. checks "Subawardee" then enter the full name, address, city, State and zip code of the prime federal recipient. Include Congressional District, if known.
6. Enter the name of the federal agency making the award or loan commitment. Include at least one organization level below agency name, if known. For example, Department of Transportation, United States Coast Guard.
7. Enter the federal program name or description for the covered federal action (item 1). If known, enter the full Catalog of Federal Domestic Assistance (CFDA) number for grants, cooperative agreements, loans and loan commitments.
8. Enter the most appropriate federal identifying number available for the federal action identification in item 1 (e.g., Request for Proposal (RFP) number, Invitation for Bid (IFB) number, grant announcement number, the contract grant. or loan award number, the application/proposal control number assigned by the federal agency). Include prefixes, e.g., "RFP-DE-90-001."
9. For a covered federal action where there has been an award or loan commitment by the Federal agency, enter the federal amount of the award/loan commitments for the prime entity identified in item 4 or 5.
10. (a) Enter the full name, address, city, state and zip code of the lobbying entity engaged by the reporting entity identified in Item 4. to influenced the covered federal action.

    (b) Enter the full names of the individual(s) performing services and include full address if different from 10 (a). Enter Last Name, First Name and Middle Initial (MI).
11. Enter the amount of compensation paid or reasonably expected to be paid by the reporting entity (Item 4) to the lobbying entity (Item 10). Indicate whether the payment has been made (actual) or will be made (planned). Check all boxes that apply. If this is a material change report, enter the cumulative amount of payment made or planned to be made.
12. Check the appropriate box(es). Check all boxes that apply. If payment is made through an in-kind contribution, specify the nature and value of the in-kind payment.
13. Check the appropriate box(es). Check all boxes that apply. If other, specify nature.
14. Provide a specific and detailed description of the services that the lobbyist has performed or will be expected to perform and the date(s) of any services rendered. Include all preparatory and related activity not just time spent in actual contact with federal officials. Identify the federal officer(s) or employee(s) contacted or the officer(s) employee(s) or Member(s) of Congress that were contacted.
15. Check whether or not a continuation sheet(s) is attached.
16. The certifying official shall sign and date the form, print his/her name title and telephone number.

Public reporting burden for this collection of information is estimated to average 30-minutes per response, including time for reviewing instruction, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0046), Washington, D.C. 20503.

SF-LLL-Instructions Rev. 06-04-90«ENDIF»